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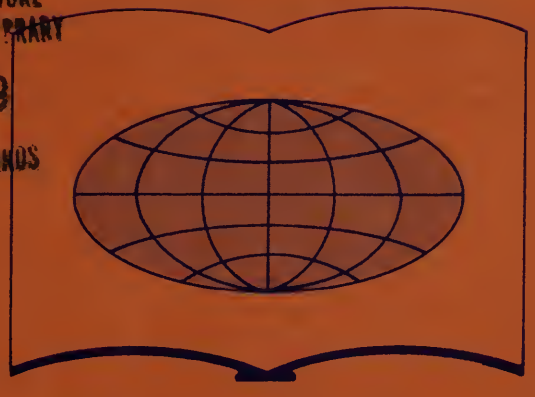

Volume 5 Number 13
June 20, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
June 20, 1969
Number 13

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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AN INTERESTING SPECIES-GROUP OF THE GENUS EPURAEA FROM AFRICA AND MADAGASCAR (COLEOPTERA, NITIDULIDAE).
J Jelinek
Acta Ent Bohemoslov 64(2):112-121 MAP
1967 420 C33
Epuraea, Insect taxonomy, Nitidulidae, Zoogeography.

7482-69
BASIS FOR A MONOGRAPH ON THE SAGINAE. I. SUPER REVISION OF THE GENUS SAGA CHARPENTIER (SALTATORIA; TETTIGONIIDAE). (GE)
A Kaltenbach
Beitr Entomol 17(1-2):3-107 MAP REF
1967 421 B392
Insect taxonomy, Tettigoniidae, Zoogeography. English and Russian abstracts.

7483-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 70. CONTRIBUTION. COLEOPTERA: TENEBRIONIDAE. (GE)
Z Kaszab
Beitr Entomol 17(3-4):547-571
1967 421 B392
Insect taxonomy, Surveys, Tenebrionidae. English and Russian abstracts.

7484-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 69. CONTRIBUTION. COLEOPTERA: MELOIDAE. (GE)
Z Kaszab
Beitr Entomol 17(3-4):537-546
1967 421 B392
Insect taxonomy, Meloidae, Surveys, Zoogeography. English and Russian abstracts.

7485-69
ON THE SALDIDAE TYPES IN THE PROVANCHER COLLECTION, AND A NEW NAME FOR SALDA CORIACEA UHLER (HETEROPTERA).
L A Kelton J D Lattin
Natur Can 95(3, MAY-JUN):661-666 REF
Jun 1968 410 N216
Insect taxonomy, Saldidae.

7486-69
THE SPHINGID GENUS SPHINX LINNE (LEP., SPHINGIDAE). (GE)
K Kernbach
Deut Entomol Z 16(1-3):91-114 REF
01 May 1969 421 D48
Insect taxonomy, Sphingidae, Surveys, Zoogeography.

7487-69
THE PRIMARY TYPES OF THE AUSTRALIAN PYRGOMORPHIDAE (ORTHOPTERA: ACRIDOIEA). (0)
K H L Key
Australian J Zool 17(2):353-414 REF
Jun 1969 410 AU73
Insect taxonomy, Orthoptera, Pyrgomorphidae.

7488-69
THE COPULATORY COMPLEX OF SOME SPECIES OF TRAMEA HAGEN (LIBELLULIDAE: ODONTA) AND ITS TAXONOMIC IMPORTANCE.
B A Khan
Zool Anz 181(5-6,NOV-DEC):403-410
Dec 1968 410 Z7
Insect taxonomy, Odonata, Reproductive organs.

7489-69
ON SEVERAL AUSTRALIAN NOTODONTIDAE (LEPIDOPTERA: NOTODONTOIDEA). (FR)
S G Kiriakoff
Natur Can 95(3,MAY-JUN):667-672
Jun 1968 410 N216
Insect taxonomy, Notodontidae. English abstract.

7490-69
CONTRIBUTION TO THE REVISION OF THE GENUS ORTHOSTIGMA (HYMENOPTERA, BRACONIDAE). (GE)
E Konigsmann
Deut Entomol Z 16(1-3):1-53 REF
01 May 1969 421 D48
Braconidae, Insect identification, Insect taxonomy.

7491-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 62. CONTRIBUTION. BIBLIOGRAPHY OF THE ENTOMOLOGICAL INVESTIGATION OF ALBANIA. PART II. (GE)
E Konigsmann
Beitr Entomol 17(3-4):435-457
1967 421 B392
Bibliography, Insect taxonomy, Surveys. English and Russian abstracts.

7492-69
A FIFTH SPECIES OF NITELA FROM NORTH AMERICA (HYMENOPTERA: SPHECIDAE).
K V Krombein
Natur Can 95(3,MAY-JUN):699-702
Jun 1968 410 N216
Insect taxonomy, Sphecidae, Zoogeography.

7493-69
CHIRONOMIDAE (DIPTERA) FROM THE HULA NATURE PRESERVE, ISRAEL.
J Kugler D Wool
Ann Zool Fenn 5(1):76-83 MAP REF
1968 410 AN712
Chironomidae, Seasonal variation, Zoogeography.

7494-69
NEW SYNONYMIES IN THE GENUS PROMECOPS SAHLBERG (COLEOPTERA CURCULIONIDAE).
G Kuschel
New Zealand J Sci 10(3):841-842
Sep 1967 514 N482
Curculionidae, Insect names, Insect taxonomy.

7495-69
ZYRUS FROM TANZANIA (EAST AFRICA) WITH DESCRIPTION OF A NEW SPECIES. MATERIAL OF THE ZOOLOGICAL COLLECTION OF THE BAVARIAN STATES, MUNICH (COLEOPTERA STAPHYLINIDAE).
H R Last
Opusc Zool (104):2P
15 Dec 1968 410 OP7
Insect taxonomy, Staphylinidae, Zoogeography.

7496-69
A METHOD OF SELECTION OF CHARACTERS IN NUMERICAL TAXONOMY.
W J Le Quesne
Syst Zool 18(2):201-205
Jun 1969 410 SY8
Insect evolution, Insect taxonomy, Methodology, Statistical analysis.

A method of selecting from a data matrix the characters most likely to lead to valid phylogenetic conclusions is put forward, based on the concept of a uniquely derived character and its logical consequences. A coefficient of character-state randomness is defined which gives a measure of how far the distribution of character-states is random between the different characters.

7497-69
POSITIVE PHOTOTAXIS OF CHIRONOMIDAE LARVULAE AS A FACTOR REGULATING THEIR DISTRIBUTION IN STAGNANT BODIES OF WATER. (GE)
J Lellak
Ann Zool Fenn 5(1):84-87 REF
1968 410 AN712
Chironomidae, Insect ecology, Insect taxonomy, Larvae, Phototropism, Plankton, Water.

7498-69
A REVIEW OF OLD WORLD SPECIES OF THYREUS PANZER (0CROCISA JURINE) (HYM., APOIDEA, ANTHOPHORIDAE). PART 4. PALEARCTIC SPECIES.
M A Lieftinck
Leiden Rijksmus Natuur Hist Zool Verhandel (98):3-139
20 Dec 1968 410.9 L59Z
Anthophorinae, Insect taxonomy, Reviews, Thyreus.

7499-69
TWO NEW ODONATA FROM SOUTHEAST ASIA, WITH COMMENTS ON PREVIOUSLY DESCRIBED SPECIES.
M A Lieftinck
Deut Entomol Z 16(1-3):205-215
01 May 1969 421 D48
Insect taxonomy, Odonata, Surveys.

7500-69
SAWFLY STUDIES (HYMENOPTERA, SYMPHYTA). (GER)
E Lindqvist
Notulae Entomol 49(1):38-48 REFS
1969 421 N84
Insect taxonomy, Symphyta, Zoogeography.

7501-69
NEW AND LITTLE KNOWN PALEARCTIC SPECIES OF THE SCAPHOSOMA LEACH GENUS (COL., SCHPHIDIIDAE) (18. CONTRIBUTION TO THE KNOWLEDGE OF THE SCAPHIDIIDAE). (GE)
I Lobl
Acta Ent Bohemoslov 64(2):105-111
1967 420 C33

Insect taxonomy, Scaphidiidae, Scaphosoma, Zoogeography. Czech abstract.

7502-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 63. CONTRIBUTION. DIPTERA: LIMONIIDAE. (GE)
B Mannheims
Beitr Entomol 17(3-4):459-476
1967 421 B392
Insect taxonomy, Limoniidae, Surveys. English and Russian abstracts.

7503-69
MITES OF THE FAMILIES TENUIPALPIDAE AND TETRANYCHIDAE INTERCEPTED ENTERING NEW ZEALAND FROM OVERSEAS.
D C M Manson
New Zealand J Sci 10(3):664-674
Sep 1967 514 N482
Economics, Surveys, Tenuipalpidae, Tetranychidae, Zoogeography.

The species of mites and the hosts from which they have been recorded are given for the years 1958-66. The known host range, distribution, and econonic importance of most species is also stated, One new species, Eotetranychus queenslandicus, is described.

7504-69
THE SPIDER MITE FAMILY TETRANYCHIDAE IN NEW ZEALAND. IV TWO NEW SPECIES OF TETRANYCHUS AND A REVISED KEY TO THE GENUS.
D C M Manson
New Zealand J Sci 10(4):1083-1091
Dec 1967 514 N482
Insect taxonomy, Tetranychus.

Two new species of mites, Tetranychus elsae and T. eyrewellensis are described and figured. A key to all the species known from New Zealand is included.

7505-69
THREE SPECIES OF THE FAMILY NOCTUIDAE NEW FOR THE CSSR (LEPIDOPTERA). (CZ)
J Marek J Stary
Acta Ent Bohemoslov 64(3):238-239 REF
1967 420 C33
Insect taxonomy, Noctuidae. English and German abstracts.

7506-69
IMMATURE STAGES OF CURCULIONIDAE. 1. SOME GENERA IN THE TRIBE ARAUCARIINI (COSSONINAE).
B M May
New Zealand J Sci 10(3):644-660
Sep 1967 514 N482
Curculionidae, Insect biology, Insect taxonomy, Larvae, Pupae.

The larvae of five species of weevils involving the genera Araucarius Kuschel, Xenocnema Wollaston and Inosdmus Brown in the cossonine tribe Araucariini are described and a key is given for their separation. The pupae of two Araucarius species and of Xenocnema are described. Tribal characters are tentatively defined. The taxonomic significance of the morphology of the alimentary canal is discussed. The tribe Araucariini is considered, on larval characters, to occupy a position intermediate between Scolytinae and Curculioninae.

7507-69
CONIOPTERYGIDAE FROM MONGOLIA (NEUROPTERA).
M Meinander
Notulae Entomol 49(1):7-10
1969 421 N84
Coniopterygidae, Insect taxonomy, Palearctic Region.

7508-69
PLECOPTERA FROM THE HAMBURG VICINITY (INSECTA-PLECOPTERA) (A CONTRIBUTION TO THE KNOWLEDGE OF THE PLECOPTERA FAUNA OF THE NORTH GERMAN LOWLANDS. (GE)
H Mendl
Hamburg Zool Staatsinst Zool Mus Entomol Mitt 3(65):1-10 REF
30 Apr 1969 421 H17
Insect taxonomy, Plecoptera, Surveys.

7509-69
EPILACHNA NIPONICA LEWIS. ON THE TYPE-SPECIMENS OF EPILACHNA NIPONICA LEWIS. (JA)
C Michio
Mikado Misc Entomol 1(7):51-58
03 Mar 1968 421 M582
Epilachna, Insect taxonomy, Zoogeography.

7510-69
DIPTERA COLLECTIONS OF P. GABRIEL STROBL--I. (PREFACE AND SPECIMENS-PART I UP TO 1890). (GE)
G Morge
Beitr Entomol 17(1-2):151-224
1967 421 B392
Diptera, Insect taxonomy. English and Russian abstracts.

7511-69
DESCRIPTIONS OF MALES OF HAEMATOPOTA SCUTELLATA INCLUDING DESCRIPTIONS OF THE HAEMATOPOTA MEIG. GENUS IN CZECHOSLOVAKIA (DIPTERA, TABANIDAE). (GE)
J Moucha M Chvala
Acta Ent Bohemoslov 64(3):224-231 REF
1967 420 C33
Haematopota, Haematopota scutellata, Insect morphology, Insect taxonomy, Zoogeography. Czech abstract.

7512-69
SIBLING SPECIES OF PHYTOSEIIDAE (ACARINA: MESOSTIGMATA).
M H Muma H A Denmark
Fla Entomol 52(2):67-72
May 1969 420 F662
Insect ecology, Insect taxonomy, Phytoseiidae.

7513-69
A NEW TAXON OF THE FAMILY HETEROGYNIDAE LATREILLE (HYM., ACULEATA).
C G Nagy
Hamburg Zool Staatsinst Zool Mus Entomol Mitt 3(64):7-11 REF
30 Apr 1969 421 H17
Aculeata, Insect taxonomy.

7514-69
THE NEW POLPOCHILA OF MEXICO AND BOLIVIA (INSECTA, COLEOPTERA, CARABIDAE). (SP)
I Negre
Ciencia 25(3):91-94
15 Jan 1967 475 C48
Carabidae, Insect taxonomy. French abstract.

7515-69
SUGGESTIONS CONCERNING THE TERMINOLOGY OF THE GENITAL SHEATH OF THE LEPIDOPTERA. (FR)
E V Niculescu
Deut Entomol Z 16(1-3):153-158 REF
01 May 1969 421 D48
Insect morphology, Insect taxonomy, Lepidoptera, Nomenclature, Reproductive organs.

7516-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 66. CONTRIBUTION. HYMENOPTERA: TIPHIIDAE. (GE)
J Oehlke
Beitr Entomol 17(3-4):517-524
1967 421 B392
Insect taxonomy, Surveys, Tiphiidae. English and Russian abstracts.

7517-69
TABANUS SPODOPTEROIDES SP. N., A NEW HORSEFLY SPECIES FROM THE TABANUS BOVINUS GROUP. (GE)
N G Olsuf'ev J Moucha M Chvala
Angew Parasitol 10(1):37-39
Feb 1969 436.8 AN4
Insect taxonomy, Tabanus. English and Russian abstracts.

7518-69
A KEY TO THE ORTHOPTERAN LARVAE OF CENTRAL GERMANY. (GE)
N Oschmann
Deut Entomol Z 16(1-3):277-291 REF
01 May 1969 421 D48
Insect taxonomy, Larvae, Orthoptera.

7519-69
NEW CONTRIBUTIONS TO THE KNOWLEDGE OF THE APTERYGOTA COLLECTION OF THE STATE ZOOLOGICAL INSTITUTE AND THE ZOOLOGICAL MUSEUM OF HAMBURG. III MEINERTELLIDAE AND MACHILIDAE (THYSANURA). (GE)
J Paclt
Hamburg Zool Mus Inst Mitt 3(63):1-24
30 Jan 1969 410.9 H172
Insect taxonomy, Machilidae, Thysanura.

7520-69
STUDIES ON MEMBRACIDAE. IX. A NEW COSTA RICAN SPECIES OF THE GENUS SPHONGOPHORUS FAIRMAIRE (HEMIPTERAHOMOPTERA). (SP)
D Pelaez
Ciencia 25(6):209-212 REF
15 Oct 1967 475 C48
Insect taxonomy, Membracidae. English abstract.

7521-69
A NEW SPECIES OF CERCOTHRIPS HOOD FROM MADAGASCAR (THYSANOPTERA).
J Pelikan
Acta Ent Bohemoslov 64(5):364-370
1967 420 C33
Cercothrips priesneri, Insect taxonomy.

7522-69
THIRD CONTRIBUTION TO THE KNOWLEDGE OF THE GEOGRAPHICAL DISTRIBUTION OF THE TINEIDS ON THE IBERIAN PENNINSULA (LEPIDOPTERA:TINEIDAE). (GE)
G Petersen
Beitr Entomol 17(3-4):357-361
1967 421 B392
Insect taxonomy, Tineidae, Zoogeography. English and Russian abstracts.

7523-69
THE IDENTITY OF ANTHOMYIA MELANIA DUFOUR, 1839 (DIPTERA: FANNIIDAE).
A C Pont
Beitr Entomol 17(3-4):325-328
1967 421 B392
Fannia ciliata, Insect taxonomy, Muscidae, Nomenclature.

7524-69
NOTES ON THE MUSCIDAE OF NEW GUINEA (DIPTERA). iII. SPECIES DESCRIBED BY STEIN IN 1900, TERMESZETR. FUZ., VOLUME 23.
A C Pont
Deut Entomol Z 16(1-3):81-90 REF
01 May 1969 421 D48
Insect taxonomy, Muscidae, Surveys, Zoogeography.

7525-69
THE GEOGRAPHICAL DISTRIBUTION OF THE DERMAPTERA--A CASE FOR CONTINENTAL DRIFT .
E J Popham
Entomologist (london) 102(1272):121-124
May 1969 421 EN8
Dermaptera, Insect dissemination, Zoogeography.

7526-69
ON A NEW SPECIES OF PHILODICUS LOEW (ASILIDAE, DIPTERA) FROM INDIA.
K R Rao
Cur Sci 38(8).196-197
20 Apr 1969 475 SCI23
Asilidae, Insect taxonomy, Zoogeography.

7527-69
DISTRIBUTION OF LAKE-DWELLING CHIRONOMIDAE (DIPTERA) IN THE ALPINE REGION. (GE)
F Reiss
Ann Zool Fenn 5(1):119-125 REF
1968 410 AN712
Chironomidae, Diptera, Insect ecology, Lakes, Tables (data), Zoogeography.

7528-69
ENTOMOLOGY AND PHILATELY (A CURIOUS NOMENCLATURE QUESTION). (GE)
H Reisser
Entomol Z 79(1-2):4-6,7
15 Jan 1969 421 EN85
Illustrations, Insect names, Insect taxonomy.

7529-69
A LIST OF NEW TAXA AND NEW SYNONYMS PUBLISHED IN THE ENTOMOGICAL REVIEW IN THE PEROID 1945-1967.
V A Rikhter
Entomol Rev 47(2,APR-JUN):222-260
Jun 1968 421 R322AE
Bibliography, Insect taxonomy, Nomenclature. Russian journal-Entomologicheskoye Obozreniye, p. 380-

7530-69
PHYCITINAE-STUDY V (LEPIDOPTERA PYRALIDAE). (GE)
U Roesler
Entomol Z 79(3):13-20,21-24
01 Feb 1969 421 EN85
Insect taxonomy, Phycitinae, Pyralidae, Zoogeography.

7531-69
THE MITES OF SUBFAMILY LABIDOPHORINAE ZACHVATKIN, 1941 (ACARINA, ACARINHE) FROM THE NESTS OF SMALL MAMMALS.
V Rupes
Cesk Spolecnosti Zool Vestnik 31(1):68-79 REF
Feb 1967 410.9 C33
Insect ecology, Insect taxonomy, Mites, Surveys, Zoogeography.

7532-69
CONTRIBUTION TO THE KNOWLEDGE OF THE COLLEMBOLA OF CHINA. (GE)
J Rusek
Acta Ent Bohemoslov 64(3):184-194
1967 420 C33
Collembola, Insect taxonomy, Zoogeography. Czech abstract.

7533-69
A REVIEW OF THE GENUS JURINIOPSIS TOWNSEND (DIPTERA: TACHINIDAE).
C Sabrosky
Fla Entomol 55(2):79-90 REF
May 1969 420 F662
Insect taxonomy, Tachinidae.

7534-69
CONTRIBUTION TO THE ECOLOGY OF THE SCORPIONS (BOTHRIURIDAE). THE HABITAT OF THREE SPECIES OF BOTHRIURUS IN URUGUAY AND ITS APPLICATION IN SYSTEMATICS. (SR)
San Martin A De Gambrardella
Paris Mus Nat Hist Natur Bull 39(1,SER 2):188-196
21 Jul 1967 410.9 P213
Ecology, Habitats, Scorpionida, Taxonomy.

7535-69
PHYLOGENETIC STUDIES ON CHIRONOMIDAE (DIPT.), WITH SPECIAL REFERENCE TO THE CORYNONEURA GROUP.
D Schlee
Ann Zool Fenn 5(1):130-138 REF
1968 410 AN712
Chironomidae, Diptera, Insect genetics, Insect identification, Insect morphology, Insect taxonomy.

7536-69
SOME NEW OR LITTLE-KNOWN NEARCTIC TRICHOPTERA. (FR)
F Schmid
Natur Can 95(3,MAY-JUN):673-698 REF
Jun 1968 410 N216
Insect ecology, Insect taxonomy, Trichoptera, Zoogeography. English abstract.

7537-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 68. CONTRIBUTION. HYMENOPTERA APIDAE. III. (GENUS NOMADA SCOPOLI). (GE)
M Schwartz
Beitr Entomol 17(3-4):529-535
1967 421 B392
Insect taxonomy, Nomada, Surveys, Zoogeography. English and Russian abstracts.

7538-69
NEW CARABUS FORMS FROM ANATOLIA (COL., CARABIDAE). (GE)
H Schweiger
Entomol Bl 64(3):157-167
15 Feb 1969 421 EN833
Carabidae, Insect taxonomy, Surveys, Zoogeography.

7539-69
THE WORLD RHYPAROCHROMINAE (HEMIPTERA: LYGAEIDAE). IV. ON SOME RHYPAROCHROMINAE TYPES IN THE MUSEUM NATIONAL D'HISTOIRE NATURELLE, PARIS.
G G E Scudder
Paris Mus Nat Hist Natur Bull 39(1,SER 2):151-157
21 Jul 1967 410.9 P213
Insect taxonomy, Lygaeidae, Rhyparochrominae, Zoogeography.

7540-69
A FOURTH EUROPEAN LYSAPHIDUS SPECIES: LYSAPHIDUS VIATICUS N. SP. (HYMENOPTERA: APHIDIIDAE). (GE)
U Sedlag
Dent Entomol Z 16(1-3):127-130
01 May 1969 421 D48
Aphidiinae, Insect taxonomy.

7541-69
REMARKS ON SOME DIPTERAN INSECTS OF THE GENUS OMPHRALE MEIGEN (DIPTERA: SCENOPINIDAE). (FR)
E Seguy
Natur Can 95(3,MAY-JUN):657-659
Jun 1968 410 N216
Insect biology, Insect taxonomy, Scenopinidae, Scenopinus. English abstract.

7542-69
BRACONIDAE DESCRIBED BY L'ABBE PROVANCHER.
R D Shenefelt
Natur Can 95(3,MAY-JUN):627-656
Jun 1968 410 N216
Braconidae, Insect taxonomy, Zoogeography.

7543-69
DESCRIPTIONS OF LASIODIAMESA BIPECTINATA SPEC. NOV. AND PAROCHLUS KIEFFERI (GARRETT) BRUNDIN (DIPTERA: CHIRONOMIDAE).
O A Shether
Beitr Entomol 17(1-2):235-247
1967 421 B392
Chironomidae, Insect taxonomy, Lasiodiamesa, Parochlus.

7544-69
STUDY ON THE JAPANESE CALOCARCELIA TOWNSEND AND EUCARCELIA BARANOV (DI PTERA: TACHINIDAE).
H Shima
Kyushu Univ Fac Agr J 14(4):507-533 REF
Nov 1968 107.6 K995
Insect taxonomy, Tachinidae, Zoogeography.

7545-69
COMPARATIVE SEROLOGY OF A COMPLEX SPECIES GROUP OF FOOD-PLANT SPECIALISTS: THE RHAGOLETIS POMONELLA COMPLEX (DIPTERA: TEPHRITIDAE).
J P Simon
Syst Zool 18(2):169-184 REF
Jun 1969 410 SY8
Electrophoresis, Immunochemistry, Insect nutrition, Insect rearing, Insect taxonomy, Rhagoletis mendax, Rhagoletis pomonella, Serological tests.

Protein extracts of pupae from eight populations of the Rhagoletis pomonella complex reared on apples, Crataegus, Vaccinium, and Gaylussacia, were compared serocogically using both quantitative (Boyden method) and qualitative (immunodiffusion and immunoelectrophoresis) techniques. Those populations feeding on apples and Crataegus were indistinguishable but were differentiated in all tests from those forms developed on Vaccinium and Gaylussacia, supporting the recognition of two entities, R. pomonella and R. mendax, within the complex.

7546-69
THE CZECHOSLOVAKIAN SPECIES OF THE ANCYROPHORUS KRAATZ GENUS (COL., STAPH.). (76. CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE.). (GE)
A Smetana
Acta Ent Bohemoslov 64(5):383-391
1967 420 C33
Ancyrophorus, Insect taxonomy, Zoogeography. English and czech abstracts.

7547-69
A STATISTICAL STUDY ON THE SYSTEMATICS OF THE CASSIDINAE (COL., CHRYS.). (GE)
W Steinhausen
Dent Entomol Z 16(1-3):147-152
01 May 1969 421 D48
Cerambycidae, Insect taxonomy, Statistical analysis.

7548-69
DISTRIBUTION OF THE MACROLEPIDOPTERA IN THE BALTIC. III. NOCTURNAL MOTHS (FAM. NOCTUIDAE). (GE)
A Sulcs J Viidalepp
Dent Entomol Z 16(1-3):217-272 MAP REF
01 May 1969 421 D48
Noctuidae, Surveys, Zoogeography.

7549-69
ON THE APPLICATION OF STATISTICAL METHODS IN SYSTEMATICS. (POL)
L Sych
Kosmos Ser A Biol 16(3):267-273
1967 442.8 K84
Insect taxonomy, Statistical analysis.

7550-69
THE AFRICAN SPECIES OF THE GENUS LITERNA STAL (HOMOPTERA: CERCOPIDAE). (FR)
H Synave
Inst Roy Sci Natur Belg Bull 44(4):1-35
25 Jan 1968 504 B835B
Cercopidae, Insect taxonomy, Zoogeography.

7551-69
ENTOMOLOGICAL SURVEY OF THE COOK ISLANDS AND NIUE. 1-HYMENOPTERA-FORMICIDAE.
R W Taylor
New Zealand J Sci 10(4):1092-1095
Dec 1967 514 N482
Formicidae, Insect taxonomy, Surveys, Zoogeography.

Three ant species are added to the 17 previously recorded from the Polynesian Cook Islands, and the first records of ants (19 species) from Nuie are given. These constitute typical synthetic oceanic faunulae assembled largely, if not entirely, from propagules introduced by man.

7552-69
THE ESTABLISHMENT IN NEW ZEALAND OF BRACON VARIEGATOR NEES (HYMENOPTERA: BRACONIDAE) A PARASITE OF COLEOPHORA SPECIES (LEPIDOPTERA: COLEOPHORIDAE).
W P Thomas
New Zealand J Sci 12(1):43-53
Mar 1969 514 N482
Bracon variegator, Coleophora, Parasitic insects, Surveys.

A parasite of Coleophora spp. in Europe, Bracon variegator Nees, introduced from France into New Zealand during the summer of 1961-62, has successfully established in localized arcas of Nelson province. The presence of this parasite in Nelson field samples was first recorded in February 1966. Notes on the biology and laboratory breeding of B. variegator are given.

7553-69
COMMENTS ON THE TAXONOMY OF SOME PALEARCTIC SPECIES OF THE MEGACHILIDAE FAMILY (HYMENOPTERA, APOIDEA). (GE)
B Tkalcu
Acta Ent Bohemoslov 64(2):91-104 REF
1967 420 C33
Hymenoptera, Insect taxonomy, Megachilidae. Czech abstract.

7554-69
THE TRICHOPTERA OF THE LULE LAPPMARK (SWEDEN), III. ON THE DIFFERENTIATION OF POTAMOPHYLAX CINGULATUS (STEPHENS 1837) AND P. LATIPENNIS (CURTIS 1834) (LEMNEPHILIDAE). (GE)
W Tobias
Entomol Z 79(9):96-100
02 May 1969 421 EN85
Insect taxonomy, Limnephilidae.

7555-69
THE TRICOPTERA OF THE LULE LAPPMARK (SWEDEN), II. INVENTORY OF THE SPECIES, HABITATS, AND FLIGHT PERIODS. (GE)
W Tobias
Entomol Z 79(9):93-96
02 May 1969 421 EN85
Bibliography, Habitats, Insect behavior, Insect flight, Surveys, Trichoptera.

7556-69
THE TRICHOPTERA OF THE LULE LAPPMARK (SWEDEN), II. CATALOG OF THE SPECIES, HABITATS AND FLIGHT PERIODS. (GE)
W Tobias
Entomol Z 79(8):77-84,85-92 MAP
15 Apr 1969 421 EN85
Insect ecology, Insect taxonomy, Surveys, Trichoptera, Zoogeography.

7557-69
A LIST OF THE HOSTS OF ENTOMOPHAGOUS INSECTS OF NEW ZEALAND.
E W Valentine
New Zealand J Sci 10(4):1100-1209 REF
Dec 1967 514 N482
Food habits, Insect taxonomy, Insects, Predaceous insects.

7558-69
CONTRIBUTION TO THE STUDY OF THE DIPTERAN BRAULIDAE AND PUPIPARANS: HIPPOBOCCIDAE, NYCTERIBIIDAE, AND STREBIDAE. (FR)
P Vanschuytbroeck
Inst Roy Sci Natur Belg Bull 44(17):1-30
15 Apr 1968 504 B835B
Diptera, Insect taxonomy, Zoogeography.

7559-69
CERCYON-STUDIES WITH DESCRIPTIONS OF TWO NEW GERMAN SPECIES. (GE)
H Vogt
Entomol Bl 64(3):172-191 REF
15 Feb 1969 421 EN833
Cercyon, Hydrophilidae, Insect taxonomy, Zoogeography.

7560-69
WHAT IS LOPUS INSIGNIS REUTER, 1879 (HEM. HET. MIRIDAE). (GE)
E Wagner
Deut Entomol Z 16(1-3):185-187
01 May 1969 421 D48
Insect taxonomy, Miridae.

7561-69
THE GLOBICEPS CRUCIATUS GROUP (HETEROPTERA,.MIRIDAE). (GE)
E Wagner
Notulae Entomol 49(1):25-30
1969 421 N84
Insect taxonomy, Miridae.

7562-69
SEVERAL NEW MIRIDS FROM LIBIA (HETEROPTERA). (GE)
E Wagner
Notulae Entomol 49(1):11-24
1969 421 N84
Insect taxonomy, Miridae.

7563-69
RHABDOBLATTA STIPATA (WALKER, 1868), AN AQUATIC COCKROACH. (GE)
H Weidner
Entomol Z 79(10):101-106
16 May 1969 421 EN85
Aquatic insects, Blattidae, Insect taxonomy, Zoogeography.

7564-69
RESULTS OF THE ALBANIAN 1961 EXPEDITION OF THE GERMAN ENTOMOLOGICAL INSTITUTE. 67. CONTRIBUTION. HYMENOPTERA. POMPILIDAE AND CEROPALIDAE. (GE)
H Wolf
Beitr Entomol 17(3-4):521-527
1967 421 B392
Ceropalidae, Insect taxonomy, Pompilidae, Surveys. English and Russian abstracts.

7565-69
CYTOTAXONOMY OF NORTH-AMERICAN CHIRONOMIDAE SPECIES. (GE)
W Wulker J E Sublette J Martin
Ann Zool Fenn 5(1):155-158 REF
1968 410 AN712
Chironomidae, Chromosomes, Cytology, Insect genetics, Insect taxonomy, Polymorphism.

PHYSIOLOGY AND BIOCHEMISTRY

7566-69
EFFECT OF DDT POISONING ON THE LONGEVITY AND FECUNDITY OF THE PINK BOLLWORM.
P L Adkisson S G Wellso
J Econ Entomol 55(6):842-845
Dec 1962 421 J822
DDT, Fertility, Insecticides, Longevity, Pectinophora gossypiella, Poisoning, Toxicity.

7567-69
EQUIPMENT FOR THE EXPERIMENTAL FEEDING OF SANDFLIES. (GE)
A N Alekseev
Angew Parasitol 10(1):1-8 REF
Feb 1969 436.8 AN4
Feeding, Insect cages, Insect rearing equipment, Psychodidae. English and Russian abstracts.

7568-69
OBSERVATIONS AND EXPERIMENTAL DATA ON OVARY ACTIVITY IN ADULT GALLERIA MELLONELLA (LEPIDOPTERA PYRALIDAE). (FR)
P Allegret
Paris Soc Biol Compt Rend 160(10):1939-1942
20 Feb 1967 442.9 P21
Galleria mellonella, Insect histology, Insect physiology, Ovaries.

7569-69
1969 INSECTICIDE RECOMMENDATIONS FOR ALFALFA, CLOVER AND SOYBEANS.
Anonymous
(279-D):2P
1969 275.29 K415M
Alfalfa, Chemical control (insects), Clover, Insect pests, Insecticide application, Insecticides, Soybeans, Spraying.

7570-69
SOME NOTES ON THE FOOD OF THE CHIRONOMID LARVAE OF A SHALLOW WOODLAND LAKE IN SOUTH FINLAND.
P D Armitage
Ann Zool Fenn 5(1):6-13
1968 410 AN712
Chironomidae, Food, Insect ecology, Insect nutrition, Larvae.

7571-69
RESISTANCE TO ORGANOPHOSPHATES IN NEW ZEALAND STRAINS OF THE TWO-SPOTTED SPIDER MITE, TETRANYCHUS TELARIUS (L.).
G H Ballantyne R A Harrison
New Zealand J Sci 10(4):915-917
Dec 1967 514 N482
Insecticides, Organophosphorus compounds, Parathion, Tetranychus telarius.

Resistance to organophosphates has been suspected in several New Zealand strains of the two-spotted spider mite, Tetranychus telarius (L.). A topical application technique was used to confirm that two independent strains of this species are highly resistant to parathion. Precise measurements indicate that the strains developed an 1150 1210 fold level of resistance.

7572-69
DIGESTIVE ENZYMES OF THE ALIMENTARY CANAL OF THE LARCH BARK BEETLE IPS CEMBRAE HEER.
R A Balogun
Compar Biochem Physiol 29(3):1267-1270 REF
Jun 1969 444.8 C73
Enzymes, Histochemistry, Insect biochemistry, Intestines, Ips.

7573-69
LARVAL DIAPAUSE IN THE TICK IXODES RICINUS L. AND ITS RELATION TO EXTERNAL CONDITIONS. 7. ON THE SENSITIVITY TO PHOTOPERIODIC STIMULI DURING BLOOD-SUCKING. (RUS)
V N Belozeroy
Zool Zhur 48(5):686-700 REF
May 1969 410 R92
Ixodes ricinus, Larvae, Photoperiodism. English abstract.

7574-69
THE SECRETORY ACTIVITY OF CORPORA ALLATA DURING SEXUAL MATURATION AND IMAGINAL DIAPAUSE IN GRYLLUS

DOMESTICUS L. AND LEPTINOTARSA DECEMLINEATA SAY.
T G Belyaeva
Acta Ent Bohemoslov 64(1):1-15 REF
1967 420 C33
Corpora allata, Glands (insects), Gryllus domesticus, Insect physiology, Leptinotarsa decemlineata, Metamorphosis, Secretion.

7575-69
RELATIVE ACTIVITY OF PYRETHROIDS IN AEROSOL FORM.
I V Bessonova I V Vashkov J P Volkov A P Volkova E B Zhuk
J Hyg Epidemiol Microbiol Immunol 13(1):56-63 REF
1969 448.8 J826
Aerosols, Chemical control (insects), Insecticidal aerosols, Musca domestica, Pyrethrum.

7576-69
CERTAIN PROBLEMS CONCERNING THE STUDY OF CHIRONOMIDAE POPULATIONS. (FR)
N Botnariuc P Albu
Ann Zool Fenn 5(1):22-26 REF
1968 410 AN712
Chironomidae, Insect ecology, Insect taxonomy, Larvae, Population statistics.

7577-69
RATING VARIOUS DETECTION METHODS FOR IXODES RICINUS. (GE)
I Bouckova V Dyk
Angew Parasitol 10(1):8-14
Feb 1969 436.8 AN4
Insect collecting equipment, Insect detection, Ixodes ricinus, Methodology. English, Russian and Czech abstracts.

7578-69
UTILIZATION OF DDT RESISTANCE AS A MEANS OF INVESTIGATING THE POSSIBLE EXISTENCE OF HOST-SPECIFIC STRAINS OF THE BOLLWORM, HELTIOTHIS ZEA.
J R Bradley Jr J B Graves D F Clower
J Econ Entomol 59(2):460-462
Apr 1966 421 J822
Cotton, DDT, Heliothis zea, Insect hosts, Insecticide resistant insects, Larvae.

7579-69
POLYGENE STRUCTURE OF INSECT HEMAGLOBIN. CHIRONOMUS TH. THUMMI (DIPTERA). (GE)
G Braunitzer G Buse S Braig
Naturwissenschaften 56(4):215
Apr 1969 474 N213
Blood chemistry, Chironomus thummi, Electrophoresis, Hemoglobin, Insect biochemistry, Peptides.

7580-69
HUNTING BEHAVIOR OF THE CTENIZIDAE.
H H R Buchli
Amer Zool 9(1):175-193 REF
Feb 1969 410 AM3
Ctenizidae, Feeding, Insect behavior, Insect ecology, Insect physiology, Predaceous insects, Spiders.

7581-69
SUSCEPTIBILITY OF THE AEDES ALBOPICTUS AND A. AEGYPTI CELL LINES TO INFECTION WITH ARBOVIRUSES.
S M Buckley
Soc Exp Biol Med Proc 131(2):625-630
Jun 1969 442.9 SO1
Aedes aegypti, Aedes albopictus, Arboviruses, Insect diseases.

7582-69
THE CONVERSION OF GLUTAMATE TO ALANINE IN THE TSETSE FLY (GLOSSINA MORSITANS).
E Bursell
Compar Biochem Physiol 23(3):825-829
Dec 1967 444.8 C73
Alanine, Carbon isotopes, Glossina morsitans, Glutamic acid, Insect biochemistry, Insect metabolism, Radioactive tracers.

7583-69
SYMPATRIC HOST RACE FORMATION AND SPECIATION IN FRUGIVOROUS FLIES OF THE GENUS RHAGOLETIS (DIPTERA, TEPHRITIDAE).
G L Bush
Evolution 23(2):237-251 MAP REF
Jun 1969 443.8 EV62
Insect evolution, Population, Rhagoletis, Zoogeography.

7584-69
EVOLUTION OF WING REDUCTION IN CRANE FLIES (DIPTERA: TIPULIDAE).
G W Byers
Evolution 23(2):346.354 REF
Jun 1969 443.8 EV62
Insect evolution, Temperature, Tipulidae, Wings (insects), Zoogeography.

7585-69
CHEMOSTERILISATION OF THE RED BOLLWORM, DIPAROPSIS CASTANEA HMPS. (LEPIDOPTERA: NOCTUIDAE).
D G Campion
Trop Sci 10(4):222-232 REF
1968 26 T756
Baits, Chemosterilants, Diparopsis castanea, Insect behavior, Noctuidae, Sex behavior, Tepa.

7586-69
THE FORMATION OF A RUDIMENTARY SPERMATOPHORE BY THE RED BOLLWORM.
D G Campion
Trop Sci 10(4):233-236
1968 26 T756
Carbamates, Carbaryl, Chemosterilants, Diparopsis castanea, Insect morphology, Insect physiology, Insecticides, Noctuidae, Spermatophores.

7587-69
RESULTS OF TESTS WITH BACILLUS THURINGIENSIS BERLINER AGAINST GYPSY MOTH LARVAE.
G E Cantwell S R Dutky J C Keller C G Thompson
J Invertebrate Pathol 3(2):143-147
Jun 1961 421 J826
DDT, Land improvement, Larvae.

7588-69
HABITAT AND DISTRIBUTION OF MECOPTERA IN EAST TENNESSEE.
D M Caron
Tenn Acad Sci J 42(3):73-75
Jul 1967 500 T25A
Habitats, Insect biology, Mecoptera, Zoogeography.

7589-69
MODES OF ESTABLISHING THE FLICKER RESPONSE IN THE INSECT EYE IN MODULATED ILLUMINATION. (FR)
P Carricaburu R Fouchard
Acad Sci Compt Rend Ser D Sci Nat 268(15, 1ST SEMESTER):1955-1957
14 Apr 1969 505 P21
Eyes, Insect behavior, Mantispidae, Orthoptera, Photosensitization.

7590-69
THE ACTION OF CORPORA CARDIACA EXTRACTS ON INTESTINAL PERISTALSIS IN LOCUSTA MIGRATORIA. (FR)
M Cazal
Arch Zool Exp Gen 110(1):83-89 REF
15 May 1969 410 AR24
Corpora cardiaca, Insect physiology, Locusta migratoria. English and German abstracts.

7591-69
AN AUTOSOMAL RECESSIVE YELLOW-EYED MUTATION IN THE BLOWFLY.
P C Chabora
J Hered 58(2,MAR-APR):87-88
Apr 1967 442.8 AM3
Eyes, Insect genetics, Insect morphology, Insect mutation, Phaenicia sericata, Pigments (insect), Ultraviolet rays.

7592-69
EVIDENCE OF A BIOGEN AMINE IN THE STOMATOGASTRIC NERVOUS SYSTEM OF THE INSECTA: HISTOCHEMICAL AND ULTRASTRUCTURAL STUDY. (FR)
B Chanussot J Dando M Moulins M S Laverack
Acad Sci Compt Rend Ser D Sci Nat 268(16,.1ST SEMESTER):2101-2104 REF
21 Apr 1969 505 P21
Amines, Blaberus craniifer, Catechol amines, Cytology, Insect physiology, Nerves, Schistocerca gregaria.

7593-69
NIGHTS FLIGHT OF THE AUSTRALIAN PLAGUE LOCUST. CHORTOICETES TERMINIFERA WALK., IN RELATION TO STORMS.
D P Clark
Australian J Zool 17(2):329-352 REF
Jun 1969 410 AU73
Chortoicetes terminifera, Insect flight, Population, Rainfall.

7594-69
FEEDING BEES.
A A Clemson
Agr Gaz New S Wales 80(4):201-205
Apr 1969 23 N472
Apiculture, Apis mellifera, Insect nutrition, Insect rearing equipment, Sucrose, Syrups.

7595-69
AN EXPERIMENT ON SELECTION FOR MIMICRY.
L M Cook
Entomologist (london) 102(1272):107-113 REF
May 1967 421 EN8
Insect evolution, Insect protective devices, Mimicry, Natural selection, Predators.

7596-69
STUDIES ON THE TRANSFER FUNCTION OF A COCKROACH MECANORECEPTOR.
A Crowe
Compar Biochem Physiol 20(1):13-25 REF
Jan 1967 444.8 C73
Insect physiology, Mechanoreceptors, Nervous system, Periplaneta americana, Statistical analysis.

7597-69
ON SOME PROBLEMS WITH THE BIONOMICS OF THE BEET NEMATODE (HETERODERA SCHACHTII SCHMIDT, 1871). (GE)
J Curi I Zmoray
Biologia (bratislava) 22(2):125-131
1967 442.8 B5265
Beets, Ecology, Heterodera schachtii, Plant nematodes, Temperature. Czech and Russian abstracts.

7598-69
SUSCEPTIBILITY OF ARCTIC MOSQUITOES TO DDT AND MALATHION.
T J Curtin
J Econ Entomol 59(6):1528
Dec 1966 421 J822
Aedes impiger, Aedes nigripes, Culicidae, DDT, Malathion.

7599-69
NEMATODES ASSOCIATED WITH THE PINE-BARK BEETLE, HYLASTES ATER, IN NEW ZEALAND.
P S Dale
New Zealand J Sci 10(1):222-234 REF
Mar 1967 514 N482
Hylastes ater, Insect diseases, Nematodes.
Samples of the Hylastes ater from fourteen localities between Auckland and South Canterbury were

examined for nematodes. Four species were found, and all samples yielded nematodes of at least two species. These four species have all been recorded from bark beetles in Germany but seven other species associated with H. ater in Germany have not been found in New Zealand. There is evidence that climactic differences between New Zealand and Germany have altered the pattern of infection of one of the introduced nematodes.

7600-69
EFFECTS OF DIETARY LIPIDS ON SURVIVAL AND DEVELOPMENT OF THE SAW-TOOTHED GRAIN BEETLE, ORYZAEPHILUS SURINAMENSIS (L.) (COLEOPTERA: SILVANIDAE).
G R F Davis
Rev Can Biol 26(2):119-124 REF
Jun 1967 442.8 R325
Insect metabolism, Insect nutrition, Insect physiology, Lipids, Oryzaephilus surinamensis.

7601-69
THE IDENTIFICATION AND DETERMINATION OF PHOSPHAGEN IN INSECTS AND THEIR EGGS.
F Di Jeso M Malcovati M T Gaetani M L Speranza
Compar Biochem Physiol 20(2):607-618 REF
Feb 1967 444.8 C73
Histochemistry, Insect biochemistry, Insect eggs, Insects, Phosphagen.

7602-69
RENEWED INFORMATION ON CAMPTOPOEUM FRONTALE (F.) IN THE HALLE/SAALE VICINITY (HYM.: APOIDAEA). (GE)
M Dorn
Deut Entomol Z 16(1-3):55-57
01 May 1969 421 D48
Apoidea, Insect morphology, Larvae.

7603-69
A PUPAL STRUCTURE IN SIMULIUM CLATHRINUM MACKERRAS AND MACKERRAS AND RELATED SPECIES (DIPTERA: SIMULIIDAE).
L J Dumbleton
New Zealand J Sci 10(3):661-663
Sep 1967 514 N482
Cuticle, Pupae, Simuliidae.

A description is given of a cuticular structure which partially encloses a group of small setae immediately anterior to the thoracic gill on the pupa of Simulium clathrinum M. and M. and those related species.

7604-69
POLYMORPHISM IN THE MIMETIC BUTTERFLY HYPOLIMNAS MISIPPUS L. IN GHANA.
M Edmunds
Heredity 24(2):281-301 REF
May 1969 443.8 H42
Danaidae, Insect genetics, Mimicry, Nymphalidae, Polymorphism, Population.

7605-69
CONTEMPORARY MALLOPHAGA LITERATURE. (GE)
W Eichler J Zlotorzycka
Angew Parasitol 10(1):53-60 REF
Feb 1969 436.8 AN4
Bibliography, Mallophaga, Reviews.

7606-69
OCCURRENCE OF VANESSA CARDUI L. (LEPIDOPTERA, NYMPHALIDAE) IN FINLAND.
S Ekholm
Notulae Entomol 49(1):1-5
1969 421 N84
Insect migration, Vanessa cardui.

7607-69
BASE COMPOSITION AND THERMAL DENATURATION OF DNA ISOLATED FROM ANAPLASMA MARGINALE.
R D Ellender G T Dimopoullos
Soc Exp Biol Med Proc 125(1):82-85 REF
May 1967 442.9 SO1
Anaplasma marginale, Calves, Histochemistry, Nucleic acids, Proteins.

DNA, isolated by two methods, from purified A. marginale, was found to possess average molar ratios of A/T and G/C of 1.9 and 2.65, respectively. There was also a lack of increase in hyperchromicity of isolated DNA in thermal denaturation studies. Attempts to isolate RNA or to detect U were unsuccessful.

7608-69
INFRASTRUCTURAL STUDY OF THE MOLTING GLANDS IN LOCUSTA MIGRATORIA MIGRATORIOIDES (R. ET F.). II. MORPHOLOGICAL ANALYSIS OF THE DEGENERATIVE STAGES IN THE GREGARIOUS IMAGOS. (FR)
M A Fain-Maurel P Cassier
Arch Zool Exp Gen 110(1):91-126 REF
15 May 1969 410 AR24
Electron microscopy, Glands (insects), Insect morphology, Locusta migratoria migratorioides, Molting (insects). English and German abstracts

7609-69
THE PHARMACOLOGY OF CARDIOACCELERATORS IN THE CENTRAL NERVOUS SYSTEM OF PERIPLANETA AMERICANA (L.).
F E Gardner H D Rounds
Compar Biochem Physiol 29(3):1071-1078
Jun 1969 444.8 C73
Atropine, Central nervous system, Dorsal vessel, Eserine, Insect physiology, Periplaneta americana, Picrotoxin, Tissue culture.

7610-69
AN ANALYSIS OF NATURAL SELECTION IN LABORATORY POPULATIONS OF DACUS (TEPHRITIDAE: DIPTERA).
J H Gee
Evolution 23(2):212-224 REF
Jun 1969 443.8 EV62
Dacus, Insect rearing, Polymorphism, Population.

7611-69
CHANGES IN LIPID CONTENT DURING THE REPRODUCTIVE CYCLE OF LEUCOPHAEA MADERAE AND EFFECTS OF THE JUVENILE HORMONE ON LIPID METABOLISM IN VITRO.
L I Gilbert
Compar Biochem Physiol 21(2):237-257 REF
May 1967 444.8 C73
Insect physiology, Juvenile hormone, Leucophaea maderae, Lipids, Reproduction, Tissue culture.

7612-69
ULTRASTRUCTURE OF THE COXAL GLANDS OF THE GENUS ORNITHODOROS (ACARI: ARGASIDAE). (GE)
W Groepler
Z Wiss Zool 178(3-4):235-275 REF
1969 410 Z3
Coxal glands, Cytology, Electron microscopy, Glands (insects), Insect physiology, Ornithodoros.

7613-69
NOTES ON THE MORPHOLOGY OF ALYCUS ROSEUS C. L. KOCH.
L. van der Hammen
Leiden Rijksmus Natuur Hist Zool Mededel 43(15):177-202 REF
26 Feb 1969 410.9 L59
Insect morphology, Opilioacaridae.

7614-69
SEASONAL VARIATION IN THE MARINE CHIRONOMID, CLUNO TSUSHIMENSIS TOKUNAGA (DIPTERA).
H Hashimoto
Ann Zool Fenn 5(1):41-48 REF
1968 410 AN712
Chironomidae, Climate, Insect physiology, Seasonal variation.

7615-69
THE CHARCOAL DIGGER WASP, ISODONITA PELOPOEIFORMIS.
G H Heinrich
Fla Entomol 52(2):113
May 1969 420 F662
Charcoal, Insect behavior, Insect nests, Sphecidae.

7616-69
STUDY OF OSMIA CORNUTA'S CONSTRUCTION AFTER INJECTIONS OF LABELLED SUBSTANCES. (FR)
Y Heroin-Delauney
Paris Soc Biol Compt Rend 160(11):2027-2030
26 Apr 1967 442.9 P21
Development, Insect physiology, Osmia cornuta, Radioactive tracers.

7617-69
PLASTRON RESPIRATION IN THE MARINE FLY CANACE.
H E Hinton
Mar Biol Ass Uk J 47(2):319-327
1967 442.9 M331
Canace, Canaceidae, Insect evolution, Insect respiration, Larvae, Pupae.

7618-69
THE EFFECTS OF METHYLFARNESOATDIHYDROCHLORIDE ON THE COLOUR CHANGE AND MOULTING BEHAVIOUR IN THE LARVAE OF CERURA VINULA L. (LEPIDOPTERA). (GE)
Ch Hintze
Biol Zentralbl 88(1,JAN-FEB):77-83
Feb 1969 442.8 B523
Hormones, Insect biochemistry, Insect color, Insect nutrition, Larvae, Molting (insects), Notodontidae.

7619-69
THE EFFECT OF HORMONES ON THE INTESTINAL PROTEINASE ACTIVITY OF ADULT PYRRHOCORIS APTERUS L. (HEMIPTERA).
H Hrubesova K Slama
Acta Ent Bohemoslov 64(3):175-183 REF
1967 420 C33
Hormones, Insect physiology, Intestines, Proteinases, Pyrrhocoris apterus.

7620-69
THE EFFECT OF CHLORIDE IONS ON MOTH SKELETAL MUSCLE FIBRES.
H Huddart
Compar Biochem Physiol 20(1):355-359
Jan 1967 444.8 C73
Bio-electric potential, Chlorides, Insect biochemistry, Ions, Muscles, Sphingidae.

7621-69
EXPERIMENTAL STUDY ON MALE REPRODUCTION SYSTEMS OF THE MEALWORM: TENEBRIO MOLITOR (COLEOPTERA, TENEBRIONIDAE). (FR)
C Huet
Paris Soc Biol Compt Rend 160(11):2021-2025
26 Apr 1967 442.9 P21
Insect physiology, Nervous system, Reproductive organs, Tenebrio molitor.

7622-69
A CONTRIBUTION TO THE KNOWLEDGE OF THE DIAPAUSE IN PERILLUS BIOCULATUS (FABR.) (HETEROPTERA, PENTATOMIDAE).
J Jasic
Acta Ent Bohemoslov 64(5):333-334
1967 420 C33
Insect physiology, Pentatomidae, Perillus bioculatus, Photoperiodism.

7623-69
INFLUENCE OF MUTUAL RELATIONS OF ORGANISMS, ESPECIALLY CHIRONOMIDAE, IN NATURAL BENTHIC COMMUNITIES, ON THEIR ABUNDANCE.
Z Kajak K Dusoge A Stanczykowska
Ann Zool Fenn 5(1):49-56 REF

1968 410 AN712
Chironomidae, Environment, Insect ecology, Lakes.

7624-69
FEEDING OF BENTHIC NON-PREDATORY CHIRONOMIDAE IN LAKES.
Z Kajak J Warda
Ann Zool Fenn 5(1):57-64 REF
1968 410 AN712
Algae, Chironomidae, Feeding habits (insects), Insect nutrition, Lakes.

7625-69
THE EFFECT OF IONTOPHORETIC INJECTION OF L-GLUTAMIC ACID AND GAMMA-AMINO-N-BUTYRIC ACID ON THE MINIATURE END-PLATE POTENTIALS AND CONTRACTURES OF THE COXAL MUSCLES OF THE COCKROACH PERIPLANETA AMERICANA L.
G A Kerkut R J Walker
Compar Biochem Physiol 20(3):999-1003 REF
Mar 1967 444.8 C73
Amino acids, Bio-electric potential, Electrophysiology, Glutamic acid, Muscles, Periplaneta americana.

7626-69
ANNULATE LAMELLAE AND YOLK NUCLEI IN OOCYTES OF THE DRAGONFLY, LIBELLULA PULCHELLA.
R G Kessel H W Beams
J Cell Biol 42(1):185-201 REF
Jul 1969 442.8 J828
Cytology, Electron microscopy, Insect eggs, Libellula, Odonata.

7627-69
PHOSPHOLIPASE ACTIVITY IN MUSCA DOMESTICA L..
M A Q Khan E Hodgson
Compar Biochem Physiol 23(3):899-910 REF
Dec 1967 444.8 C73
Insect biochemistry, Insect metabolism, Musca domestica, Phospholipase.

7628-69
THE EFFECT OF GENOTYPE, MATING STATUS, WEIGHT AND EGE PRODUCTION ON LONGEVITY IN DROSOPHILA MELANOGASTER.
J F Kidwell L Malick
J Hered 58(4,JUL-AUG):169-172
Aug 1967 442.8 AM3
Drosophila melanogaster, Genes, Insect behavior, Insect eggs, Insect genetics, Insect physiology, Longevity, Sex behavior.

7629-69
SEASONAL AND DIEL EMERGENCE OF CHIRONOMUS SALINARIUS KIEFF. (DIPT., CHIRONOMIDAE) NEAR BERGEN, WESTERN NORWAY.
R Koskinen
Ann Zool Fenn 5(1):65-70 MAP REF
1968 410 AN712
Chironomidae, Insect ecology, Insect morphology, Marine biology, Seasonal variation.

7630-69
SEASONAL EMERGENCE OF CLUNIO MARINUS HALIDAY (DIPT., CHIRONOMIDAE) IN WESTERN NORWAY.
R Koskinen
Ann Zool Fenn 5(1):71-75 MAP REF
1968 410 AN712
Chironomidae, Insect morphology, Marine biology, Seasonal variation.

7631-69
INVESTIGATION INTO THE VARIABILITY OF EUROPEAN POPULATIONS OF ORTHOTYLUS ERICETORUM FALL. (HETEROPTERA: MIRIDAE). (GE)
V Koziskova
Acta Ent Bohemoslov 64(1):16-36 REF
1967 420 C33
Insect morphology, Miridae, Orthotylus ericetorum, Population, Zoogeography. Czech abstract.

7632-69
VARIOUS ASPECTS OF THE BIOLOGY OF AGELENA CONSOCIATA DENIS WHEN BRED IN THE LABORATORY.
B Krafft
Amer Zool 9(1):201-210 REF
Feb 1969 410 AM3
Agelena consociata, Insect behavior, Insect physiology, Insect rearing, Predaceous insects, Spider webs, Spiders.

7633-69
INVESTIGATIONS INTO THE RELATION OF EGG LENGTH AND EGG QUANTITY PER BATCH TO THE SIZE OF THE FEMALE ANOPHELES CLAVIGER TYPICUS MEIGEN WITH REFERENCES TO THE DEVELOPMENT IN SIZE OF THE LARVAE. (INVESTIGATION INTO THE INSECT FAUNA FROM AREA NR. 15) (DIPTERA: CULICIDAE). (GE)
F Kuhlhorn
Beitr Entomol 17(3-4):337-347 REF
1967 421 B392
Anopheles claviger, Insect eggs, Insect physiology, Ovulation. English and Russian abstracts.

7634-69
STUDY OF DENUCLEOSIS OF GALLERIA MELLONELLA L. (LEPIDOPTERA) BY FLUORESCENT TECHNIQUES. (FR)
E,Kurstak I Goring S Garzon J R Cote
Natur Can 95(3,MAY-JUN):773-783 REF
Jun 1968 410 N216
Dna viruses, Fluorescent antibody technic, Galleria mellonella, Insect diseases. English abstract.

7635-69
TRANSMISSION OF DENSONUCLEOSIS VIRUS BY PARASITISM OF A HYMENOPTERAN. (FR)
E Kurstar C Vago
Rev Can Biol 26(4):311-316 REF
Dec 1967 442.8 R325
Galleria mellonella, Ichneumonidae, Insect diseases, Nemeritis canescens, Parasitic insects, Viruses. English abstract.

7636-69
SOME RESULTS ABOUT SELECTION OF ACANTHOSCELIDES OBTECTOS WITH INSTANTLY EGG-LAYING RESPONSE ON THE DELAYING PRESENTATION OF THE PHASEOLUS VULGARIS SEEDS. (FR)
V Labeyrie
Paris Soc Biol Compt Rend 160(8-9):1696-1699
04 Feb 1967 442.9 P21
Acanthoscelides obtectus, Egg production, Kidney beans.

7637-69
THE METABOLISM OF NUCLEIC ACIDS IN THE WING BUDS OF PIERIS BRASSICAE (L.) (LEPIDOPTERA, PIERIDAE). (FR)
P Lafont
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2133-2135
21 Apr 1969 505 P21
Insect biochemistry, Insect metabolism, Insect physiology, Nucleic acids, Pieris brassicae, Thymidine, Wings (insects).

7638-69
IONIC DISTRIBUTION STUDIES IN HAEMOLYMPH FROM DIFFERENT PARTS OF PERIPLANETA AMERICANA BY RADIOACTIVE TRACERS.
S K Lahiri A Roy D Banerjee S C Jamdar S R Basu Et Al
Indian J Exp Biol 5(1):27-28 REF
Jan 1967 442.8 IN2
Blood, Chlorides, Insect biochemistry, Iodine, Ions, Iron, Periplaneta americana, Radioisotopes, Sodium.

7639-69
EXPERIMENTAL INVESTIGATION INTO THE MORPHOLOGICAL VARIABILITY OF MUSCA DOMESTICA L. (DIPT. MUSCIDAE). (GE)
V Lavtschiev M Jelesova
Zool Anz 181(5-6,NOV-DEC):411
Dec 1968 410 Z7
Musca domestica, Polymorphism, Temperature.

7640-69
A METHOD OF MEASURING RESPIRATORY EXCHANGES IN THE TOTAL INSECT. (FR)
J R Le Berre N Hawlitzky
Paris Soc Biol Compt Rend 161(5):999-1004
25 Nov 1967 442.9 P21
Insect respiration, Methodology, Statistical analysis.

7641-69
RNA AND PROTEIN SYNTHESIS IN PUFFS ISOLATED FROM SALIVARY GLAND CHROMOSOMES OF CHIRONOMUS. (GE)
M Lezzi
Chromosoma 21(1):72-88 REF
02 Mar 1967 442.8 C46
Chironomus tentans, Chromosomes, Culture media, Insect biochemistry, Insect physiology, Proteins, Radioactive tracers, Ribonucleic acid. English abstract.

7642-69
SOME CHARACTERISTICS OF GLYCOGEN FROM A FLY PUPA (CALLIPHORA ERYTHROCEPHALA MEIG.).
N O Lindh
Compar Biochem Physiol 20(1):209-216 REF
Jan 1967 444.8 C73
Calliphora vicina, Glycogen, Insect biochemistry, Pupae.

7643-69
PROTEIN SYNTHESIS IN CELL-FREE PREPARATIONS FROM MUSCA DOMESTICA L..
S Litvak J Mancilla M Agosin
Compar Biochem Physiol 21(3):441-448 REF
Jun 1967 444.8 C73
Enzymes, Insect biochemistry, Musca domestica, Proteins, Tissue culture.

7644-69
THE INFLUENCE OF TEMPERATURE AND RELATIVE HUMIDITY ON THE WEIGHT LOSS OF THE PUGNACIOUS ANT, ANOPLOLEPIS CUSTODIENS (SMITH). (AF)
J F Louw
S Afr J Agr Sci 11(3):575-582
Sep 1968 24 SU3
Formicidae, Humidity, Insect physiology, Temperature.

7645-69
JOINT ACTION OF DDT-CONTAINING INSECTICIDE MIXTURES AGAINST DDT-RESISTANT PINK BOLLWORMS.
W L Lowry R S Berger
J Econ Entomol 57(1):181-182
Feb 1964 421 J822
DDT, Insecticide resistant insects, Pectinophora gossypiella.

7646-69
BOLLWORM AND TOBACCO BUDWORM RESISTANCE TO SEVERAL INSECTICIDES IN THE LOWER RIO GRANDE VALLEY OF TEXAS.
W L Lowry R L McGarr O T Robertson R S Berger H M Graham
J Econ Entomol 58(4):732-734, TABS.
Aug 1965 421 J822
DDT, Heliothis virescens, Heliothis zea, Insecticide resistant insects.

7647-69
THE CEREAL LEAF BEETLE IN OHIO.
W F Lyon R E Treece
Ohio State Univ Ext Leafl (150):4P MAP

Jan 1969 275.29 OH32EL
Azinphosmethyl, Carbamates, Carbaryl, Chemical control (insects), Insect pests, Insect physiology, Insecticides, Malathion, Organophosphorus compounds, Oulema melanopa, Plant injuries.

7648-69
FIRST EXPERIMENTAL REARINGS OF HYLOBIUS ABIETIS LARVAE ON A SYNTHETIC MEDIUM. (FR)
C B Malphettes
Forestierier Sci Ann 25(3):189-192
1968 99.9 F845
Culture media, Curculionidae, Hylobius abietis, Insect physiology, Insect rearing, Larvae. English and German summaries.

7649-69
ON A METHOD OF POPULATION ESTIMATION USING CAPTURE-RECAPTURE DATA.
B F J Manly
Entomologist (london) 102(1272):117-120
May 1969 421 EN8
Methodology, Population, Statistical analysis, Surveys.

7650-69
BIONOMICS OF STETHORUS GILVIFRONS MULSANT (COLEOPTERA: COCCINELLIDAE).
L M L Mathur
Madras Agr J 56(1):7-11
Jan 1969 22 M262
Bionomics, Castorbeans, Coccinellidae, Insect eggs, Insect physiology, Predaceous insects, Stethorus, Tetranychus telarius.

7651-69
INVESTIGATION INTO THE POPULATION FLUCTUATIONS OF OSCINELLA FRIT L.. (GE)
K Mayer
Dent Entomol Z 16(1-3):115-126 REF
01 May 1969 421 D48
Insect biology, Insect ecology, Oscinella frit, Population.

7652-69
THE CAPACITY OF INSECTS TO LEARN AND TO EVALUATE VISUAL STIMULI.
G A Mazokhin-Porshnyakov
Entomol Rev 47(2,APR-JUN):211-221 REF
Jun 1968 421 R322AE
Bee behavior, Bees, Color, Size, Stimuli, Vision. Russian journal-Entomologicheskoye Obozreniye, p. 362-379.

7653-69
NEUROMUSCULAR TRANSMISSION IN INSECTS: EFFECT OF INJECTED CHEMICAL AGENTS.
F V McCann R W Reece
Compar Biochem Physiol 21(1):115-124 REF
Apr 1967 444.8 C73
Acetylcholine, Electrophysiology, Eserine, Glutamic acid, Muscles, Nerves, Sarcophaga bullata.

7654-69
THE EFFECT OF METABOLIC INHIBITORS ON THE MOTH HEART.
F V McCann
Compar Biochem Physiol 20(2):399-409 REF
Feb 1967 444.8 C73
Antimetabolites, Dinitrophenol, 2,4-, Dorsal vessel, Electrophysiology, Hyalophora cecropia, Insect physiology, Sodium azide.

7655-69
SPIDER VENOMS: BIOCHEMICAL ASPECTS.
J D McCrone
Amer Zool 9(1):153-156 REF
Feb 1969 410 AM3
Amines, Amino acids, Atrax robustus, Ctenus ferus, Enzymes, Insect biochemistry, Latrodectus mactans, Lycosa erythrognatha, Peptides, Spiders, Venoms.

7656-69
THE METABOLISM OF C-14 LABELED DDT IN LARVAE, PUPAE, AND ADULTS OF DROSOPHILA MELANOGASTER.
D B Menzel S M Smith R Miskus W M Hoskins
J Econ Entomol 54(1):9-12
Feb 1961 421 J822
Dicofol, DDT, Drosophila melanogaster, Metabolism, Radioactive tracers.

7657-69
DAILY PERIODICITY OF THE FORMATION OF HONEYBEE ENDOCUTICLE LAYERS. (GE)
R Menzel K Moch G Wladarz M Lindaver
Biol Zentralbl 88(1,JAN-FEB):61-67
Feb 1969 442.8 B523
Apis mellifera, Cuticle, Insect physiology, Photoperiodism.

7658-69
THE INFLUENCE OF TEMPERATURE UPON THE GROWTH OF ACROLEPIA ASSECTELLA ZELLER. (FR)
M Meudec
Paris Soc Biol Compt Rend 160(8-9):1693-1696
04 Feb 1967 442.9 P21
Acrolepia assectella, Development, Insect physiology, Larvae, Temperature.

7659-69
ADENOSINETRIPHOSPHATASES FROM THORACIC MUSCLE MITOCHONDRIA OF THE AMERICAN COCKROACH.
R R Mills D G Cochran
Compar Biochem Physiol 20(3):919-923
Mar 1967 444.8 C73
Adenosine triphosphatase, Chromatography, Insect biochemistry, Mitochondria, Muscles, Periplaneta americana, Thorax.

7660-69
INVESTIGATION OF THE LATENT PERIOD OF THE OAK LEAF ROLLER TORTRIX VIRIDANA L. (LEPIDOPTERA). (GE)
J Moeller
Dent Entomol Z 16(1-3):77-79
01 May 1969 421 D48
Insect physiology, Population, Tortrix viridana.

7661-69
CORTISOL AND GROWTH IN INSECTS.
W Mordue
Compar Biochem Physiol 23(3):721-727 REF
Dec 1967 444.8 C73
Hormones, Hydrocortisone, Insect physiology, Schistocerca gregaria, Tenebrio molitor.

7662-69
SOME ECOLOGICALLY INTERESTING CHIRONOMIDAE FROM THE LAKE REGION OF STECHLIN. (GE)
G Mothes
Ann Zool Fenn 5(1):92-96 REF
1968 410 AN712
Chironomidae, Insect ecology, Insect morphology, Insect taxonomy.

7663-69
FATTY ACID COMPOSITION OF THE GLYCERIDE AND FREE FATTY ACID FRACTIONS OF THE FAT BODY AND HEMOLYMPH OF THE COCKROACH, PERIPLANETA AMERICANA (L.).
D R Nelson A C Terranova D R Sukkestad
Compar Biochem Physiol 20(3):907-917 REF
Mar 1967 444.8 C73
Aging, Blood, Chromatography, Fat body, Fatty acids, Glycerides, Periplaneta americana.

7664-69
EXPERIMENTS WITH THE MEASUREMENT OF THE INTENSITY OF THE WING BEAT RESONANCE OF THE MOSQUITO, CULEX PIPIENS. (GE)
D Novak M Migota
Dent Entomol Z 16(1-3):273-275
01 May 1969 421 D48
Culex pipiens, Insect flight, Sound waves, Wings (insects).

7665-69
MORPHOGENETIC ANALYSIS OF THE EFFECTS OF JUVENILE HORMONE ANALOGUES AND OTHER MORPHOGENETICALLY ACTIVE SUBSTANCES ON EMBRYOS OF SCHISTOCERCA GREGARIA (FORSKAL).
V J A Novak
J Embryol Exp Morphol 21(1):1-21 REF
Feb 1969 442.8 J829
Genetics, Hormones, Insect eggs, Insect morphology, Insects, Larvae, Schistocerca gregaria, Tissues. English and French summaries.

7666-69
TAXONOMY, ECOLOGY AND BEHAVIOR OF THE NORTHERN BALTIC CLUNIO MARINUS HALID. (DIPT., CHIRONOMIDAE).
R Olander E Palmen
Ann Zool Fenn 5(1):97-110 MAP REF
1968 410 AN712
Chironomidae, Insect behavior, Insect ecology, Insect taxonomy.

7667-69
ADAPTATIONS OF ARCTIC CHIRONOMIDAE.
D R Oliver
Ann Zool Fenn 5(1):111-118 REF
1968 410 AN712
Chironomidae, Insect morphology.

7668-69
CONTRIBUTION TO THE STUDY OF MOSQUITOES (DIPTERA, CULICINAE) OCCURRING IN SOME AREAS OF CENTRAL AND SOUTH MORAVIA.
P Palicka
Acta Ent Bohemoslov 64(1):69-78 MAP REF
1967 420 C33
Culicidae, Czechoslovakia, Habitats, Population, Zoogeography.

7669-69
THE SECOND INTERNATIONAL SYMPOSIUM OF CHIRONOMID RESEARCH, HELSINKI 1967.
E Palmen
Ann Zool Fenn 5(1):1-3
1968 410 AN712
Chironomidae, Insect biology, Symposia.

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THE ORIGIN OF HETEROGENEITY IN NEWLY-HATCHED POPULATIONS OF THE MIGRATING GRASSHOPPER, SCHISTOCERCA GREGARIA FORSK. (GREGARIOUS PHASE). (FR)
M Papillon
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2136-2138
21 Apr 1969 505 P21
Insect physiology, Larvae, Polymorphism, Population, Schistocerca gregaria, Statistical analysis.

7671-69
ON THE ECOLOGY OF ZYGOPTERAN DRAGONFLY POPULATIONS.
M J Parr
Entomologist (london) 102(1272):114-116 REF
May 1969 421 EN8
Insect ecology, Odonata, Population.

7672-69
APPLICATION OF THE EXPONENTIAL AND POWER FUNCTIONS TO THE STUDY OF ALLOMETRIC GROWTH, WITH PARTICULAR REFERENCE TO DORYLINE ANTS.
B S Pasternack R R Gianutsos
Amer Natur 103(931,MAY-JUN):225-234 REF
30 Jun 1969 470 AM36
Formicidae, Insect physiology, Statistical analysis.

7673-69
THE EFFECTS OF CERTAIN ELEMENTS ON THE HOST-PATHOGEN RELATIONSHIP OF

PLODIA INTERPUNCTELLA (HBN.) AND BACILLUS THURINGIENSIS VAR. THURINGIENSIS BERLINER. (FR)
J M Perron W A Smirnoff L Huot
Natur Can 95(3,MAY-JUN):785-792 REF
Jun 1968 410 N216
Bacillus thuringiensis, Bacterial diseases (insects), Insect nutrition, Plodia interpunctella. English abstract.

7674-69
BAGWORM PHOTOGRAPHS: EGGS, LARVAE, PUPAE, AND ADULTS OF THYRIDOPTERYX EPHEMERAEFORMIS (PSYCHIDAE: LEPIDOPTERA).
A Peterson
Fla Entomol 52(2):61-65
May 1969 420 F662
Insect behavior, Insect biology, Insect rearing, Photography, Thyridopteryx ephemeraeformis, Trichogramma.

A series of photographs is shown, illustrating the various stages in the unusual life cycle of the bagworm Thyridopteryx ephemeraeformis (Haworth) with special emphasis on eggs and their location, and on the structure and behavior of the females that may crawl out of pupae that have been removed from their bags. Notes are included on the use of single, clean bagworm eggs in rearing egg parasites, especially Trichogramma minutum Riley.

7675-69
EFFECTS OF THE ELECTRICAL POLARIZATION OF THE SIXTH ABDOMINAL GANGLION OF THE COCKROACH (PERIPLANETA AMERICANA) ON THE ACTIVITY OF THE GIANT FIBERS. (FR)
Y Pichon J Boistel
Paris Soc Biol Compt Rend 160(8-9):1728-1732
04 Feb 1967 442.9 P21
Electrophysiology, Insect physiology, Nervous system, Periplaneta americana.

7676-69
STUDY OF THE ISOLATED NERVE FIBRE OF INSECT. RECORD OF MEMBRANE AND ACTION POTENTIALS OF THE GIANT FIBRE OF THE COCKROACH, PERIPLANETA AMERICANA L.. (FR)
Y Pichon J Boistel
Paris Soc Biol Compt Rend 160(10):1948-1954 REF
20 Feb 1967 442.9 P21
Bio-electric potential, Insect physiology, Nervous system, Periplaneta americana.

7677-69
ASPECTS OF THE MORPHOGENESIS, IN ORGANOTYPICAL CULTURE IN VITRO, OF THE TRACHEAL SYSTEM IN DIPTERA CALLIPHORIDAE. (FR)
J C Pihan
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2074-2077 REF
21 Apr 1969 505 P21
Calliphora vicina, Hormones, Insect histology, Insect morphology, Insect physiology, Larvae, Phaenicia, Trachea.

7678-69
LIFE HISTORY AND HABITS OF THE DOGWOOD BORER, THAMNOSPHECIA SCITULA (LEPIDOPTERA: AEGERIIDAE) IN TENNESSEE.
C D Pless W W Stanley
Tenn Acad Sci J 42(4):117-123
Oct 1967 500 T25A
Cornus, Insect behavior, Insect biology, Thamnosphecia.

7679-69
DIELDRIN AND DDT: EFFECTS ON SPARROW HAWK EGGSHELLS AND REPRODUCTION.
R D Porter S N Wiemeyer
Science 165(3889):199-200 REF
11 Jul 1969 470 SCI2
Birds, Dieldrin, DDT, Eggs, Pesticides, Reproduction.

7680-69
INFLUENCE OF CORPUS ALLATUM ON REPRODUCTION OF FEMALE IPHITA LIMBATA STAL (HEMIPTERA).
V K K Prabhu P I Ittycheria K K Nayar
Acta Ent Bohemoslov 64(5):335-343 REF
1967 420 C33
Blood, Corpora allata, Electrophoresis, Insect physiology, Iphita limbata, Reproduction.

7681-69
THE ECOLOGY OF A NATURAL POPULATION OF QUEENSLAND FRUIT FLY, DACUS TRYONI. II. THE DISTRIBUTION OF EGGS AND ITS RELATION TO BEHAVIOUR.
G Pritchard
Australian J Zool 17(2):293-311 REF
Apr 1969 410 AU73
Dacus tryoni, Insect behavior, Ovulation.

7682-69
PRESENCE OF HAEMOCYANIN IN THE BLOOD OF A CENTIPEDE SCUTIGERA LONGICORNIS (CHILOPODA: MYRIAPODA).
G S Rajulu
Cur Sci 38(7):168-169
05 Apr 1969 475 SCI23
Biochemistry, Blood, Chilopoda, Hemocyanins.

7683-69
EVIDENCE OF GOMORI NEGATIVE NEUROSECRETORY CELLS IN THE PARS INTERCEREBRALIS OF MUSCA DOMESTICA L. BY A COMPARATIVE STUDY USING AN ORDINARY MICROSCOPE AND AN ELECTRON MICROSCOPE. (FR)
F Ramade
Acad Sci Compt Rend Ser D Sci Nat 268(15, 1ST SEMESTER):1945-1947
14 Apr 1969 505 P21
Brain, Electron microscopy, Endocrine glands, Glands (insects), Insect histology, Insect physiology, Musca domestica, Nervous system, Secretion.

7684-69
THE STOMODAEAL NERVOUS SYSTEM OF CYBISTER CONFUSUS SHP. (DYTISCIDAE: COLEOPTERA).
D R Ranade
Cur Sci 38(7):170-171
05 Apr 1969 475 SCI23
Development, Dytiscidae, Insect physiology, Intestines, Larvae, Nervous system.

7685-69
OCCURRENCE OF D-SERINE IN ASEPTICALLY GROWN BOMBYX MORI.
D R Rao A H Ennor B Thorpe
Compar Biochem Physiol 21(3):709-711 REF
Jun 1967 444.8 C73
Bombyx mori, Germ-free life, Insect biochemistry, Isomers, Serine.

7686-69
STUDIES ON THE ALLOSTERIC CONTROL OF AN ENZYME INVOLVED IN INSECT TANNING.
A Retnakaran
Compar Biochem Physiol 29(3):965-974 REF
Jun 1969 444.8 C73
Enzymes, Galleria mellonella, Insect metabolism, Radioactive tracers, Statistical analysis.

7687-69
EFFECT OF 6-AZAURIDINE ON THE DEVELOPMENT OF THE OVARIES IN THE HOUSE FLY MUSCA DOMESTICA L. (DIPTERA).
B Rezabova V Landa
Acta Ent Bohemoslov 64(5):344-351 REF
1967 420 C33
Azauridine, 6-, Deoxyribonucleic acid, Insect biochemistry, Insect histology, Insect physiology, Musca domestica, Ovaries, Ribonucleic acid.

7688-69
THE FEEDING HABITS OF HIGHER DIPTERAN LARVAE.
M J Roberts
Entomologist (london) 102(1272):99-106
May 1969 421 EN8
Diptera, Food habits, Insect behavior, Insect morphology, Larvae, Mouth parts.

7689-69
PREDATORY BEHAVIOR OF ARGIOPE ARGENTATA (FABRICIUS).
M H Robinson
Amer Zool 9(1):161-173 REF
Feb 1969 410 AM3
Argiope argentata, Insect behavior, Insect physiology, Lepidoptera, Predaccous insects, Spider webs, Spiders.

7690-69
COMPARATIVE MODIFICATIONS OF THE FIGURATIVE PARTS OF THE HEMOLYMPH OF THE SAHARA SCORPION, ANDROCTONUS AUSTRALIS (L.) HECTOR C. L. KOCH, SUBJECTED EITHER TO ENVIRONMENTAL STRESSES OR TO EXPERIMENTAL IRRADIATIONS. (FR)
J Rodier J M Veillard C Grenot P Blanc P Niaussat
Paris Mus Nat Hist Natur Bull 39(1,SER 2):197-204
21 Jul 1967 410.9 P213
Blood analysis, Environment, Gamma rays, Scorpionida, Stress.

7691-69
A COMPARATIVE STUDY OF THE EMBRYONIC STAGES AT DIAPAUSE OF SOME SPECIES OF GRASSHOPPERS IN EAST TENNESSEE.
W G Russell
Tenn Acad Sci J 42(2):57-64
Apr 1967 500 T25A
Acrididae, Embryology, Insect physiology.

7692-69
OBSERVATIONS OF ODONTOPUS CALCEATUS (COLEOPTERA: CURCULIONIDAE), A LEAF MINER DAMAGING YELLOW-POPULAR.
W G Russell W W Stanley
Tenn Acad Sci J 42(3):93-96
Jul 1967 500 T25A
Insect behavior, Liriodendron tulipifera, Odontopus calceatus, Tree injuries.

7693-69
ITALIAN CULICID VECTORS OF ARBOVIRUS. (IT)
G Sacca A Scirocchi M Balducci P Verani M C Lopes
Parassitologia 10(2-3,OCT-DEC):195-201 REF
Dec 1968 436.8 P212
Aedes vexans, Arboviruses, Culex pipiens, Insect behavior, Insect vectors. English abstract.

7694-69
VITAMIN A IN THE VISION OF TERMITES.
A Sannasi
Indian J Exp Biol 6(4):260- 261
Oct 1968 442.8 IN2
Insect biochemistry, Insect physiology, Odontotermes redemanni, Termites, Vision, Vitamin a, Vitamin A aldehyde.

Vitamin A was identified in Termes redemanni, which like retinene, is confined to the head and not the thorax or abdomen. Negatively phototactic forms before swarming have little vitamin A but in positively phototactic swarming forms vitamin A increases at the expense of retinene.

7695-69
ELECTRICAL MEASUREMENTS ON CUTICLES EXCISED FROM ADULT MALE PERIPLANETA AMERICANA (L.).
P O Scheic T Smythe
Compar Biochem Physiol 21(3):547-571 REF
Jun 1967 444.8 C73
Bio-electric potential, Cuticle, Electrophysiology, Periplaneta americana.

7696-69
THE CARABID FAUNA OF THE HOHER VOGELSBERG NATURE CONSERVATION PARK. (GE)
H Scherf
Entomol Bl 64(3):130-156 MAP REF
15 Feb 1969 421 EN833
Carabidae, Germany, Insect ecology, Surveys, Zoogeography.

7697-69
MOUNTAIN SYSTEMS AS CENTERS OF SPECIES FORMATION. (GE)
H Schweiger
Deut Entomol Z 16(1-3):159-174 MAP REF
01 May 1969 421 D48
Insect ecology, Insect evolution, Population.

7698-69
LICE.
D A Siddiqui
Sci Chronicle 6(4,JUL-SEP):19-21
Jul 1968 Q1.S33
Animals, Anoplura, Cattle, Insecticides.

7699-69
ON THE PREPARATION OF THE GENITALIA OF SHEPHERD SPIDERS. (GE)
V Silhavy
Deut Entomol Z 16(1-3):141-145
01 May 1969 421 D48
Extraction techniques, Insect physiology, Phalangida, Reproductive organs.

7700-69
JUMPING AS DEFENSIVE BEHAVIOR IN COLLEMBOLA. (GE)
H R Simon
Entomol Z 79(10):110-112
16 May 1969 421 EN85
Collembola, Insect behavior, Insect protective devices.

7701-69
ON THE PRACTICAL SIGNIFICANCE OF BIOLOGIC FEEDING INVESTIGATIONS OF PREDATORY COLEOPTERA. (GE)
R Simon
Entomol Z 79(1-2):7-10
15 Jan 1969 421 EN85
Coleoptera, Food habits, Predaceous insects.

7702-69
WHOLE TOWN TREATMENT FOR FRUIT FLY CONTROL.
A H Skepper R Sweedman
Agr Gaz New S Wales 79(12):705-709
Dec 1968 23 N472
Attractants, Baits, Chemical control (insects), Costs, Spraying, Tephritidae.

7703-69
CHIRONOMIDAE ECOLOGY IN THE UTSCHA RESERVOIR. (GE)
N Sokolowa
Ann Zool Fenn 5(1):139-143 REF
1968 410 AN712
Chironomidae, Insect ecology, Insect eggs, Insect morphology.

7704-69
THE TERMINOLOGY OF THE PHENOMENA CONNECTED WITH THE WEATHER IN ECOLOGY. (FR)
A Sournia S Frontier
Paris Mus Nat Hist Natur Bull 39(5,SER 2):1001-1002
25 Apr 1968 410.9 P213
Ecology, Nomenclature, Weather.

7705-69
QUALITATIVE ESTIMATION OF DIGESTIVE ENZYMES IN MIDGUT OF GRYLLODES SIGILLATUS WALKER.
R P Srivastava
Beitr Entomol 17(5-8):651-652
1967 421 B392
Amylases, Glucosidase, alpha-, Gryllodes sigillatus, Insect biochemistry, Invertase, Lactase, Proteinases.

7706-69
THE EVOLUTION AND SIGNIFICANCE OF THE EPIZOIC MODE OF LIFE IN CHIRONOMIDAE-LARVAE (DIPTERA). (GE)
A W Steffan
Ann Zool Fenn 5(1):144-150 REF
1968 410 AN712
Aquatic insects, Chironomidae, Diptera, Feeding habits (insects), Insect evolution, Larvae, Phoresy, Symbiosis.

7707-69
MORPHOLOGICAL ADAPTATIONS OF THE HEAD AND MANDIBLES OF SOME COLEOPTEROUS LARVAE BURROWING SOLID SUBSTRATES (COLEOPTERA).
B R Striganova
Beitr Entomol 17(5-8):639-649 REF
1967 421 B392
Coleoptera, Head, Insect adaptation, Insect morphology, Larvae, Mouth parts.

7708-69
A PECULIAR SWARMING MECHANISM OF AN ARCTIC CHIRONOMID (DIPTERA) AT SPITSBERGEN.
J Syrjamaki
Ann Zool Fenn 5(1):151-152
1968 410 AN712
Chironomidae, Insect behavior, Swarming.

7709-69
BIOLOGY OF THE EUROPEAN CHAFER, AMPHIMALLON MAJALIS (COLEOPTERA: SCARABAEIDAE) IN NORTHEASTERN UNITED STATES.
H Tashiro G G Gyrisco F L Gambrell B J Fiori H Breitfeld
N Y (state) Agr Exp Sta Bull (828):71P REF
Jun 1969 100 N48 (2)
Amphimallon majalis, Attractants, Host plants, Insect biology, Insect diseases, Insect histology, Larvae, Microorganisms, Parasitism.

7710-69
ELECTROPHORESIS AND IMMUNODIFFUSION OF PROTEINS FROM THE HEMOLYMPH OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS (DALLAS) (HEMIPTERA, LYGAEIDAE).
M L Terando D Feir
Compar Biochem Physiol 20(2):431-436 REF
Feb 1967 444.8 C73
Blood, Electrophoresis, Immunochemistry, Oncopeltus fasciatus, Proteins.

7711-69
IMMUNOELECTROPHORESIS OF PROTEINS IN THE HEMOLYMPH OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS (DALLAS).
M L Terando D Feir
Compar Biochem Physiol 21(1):31-38 REF
Apr 1967 444.8 C73
Blood, Electrophoresis, Insect biochemistry, Metamorphosis, Oncopeltus fasciatus, Proteins.

7712-69
CONTRIBUTION TO THE STUDY OF THE LARVAL TRACHEATION OF THE EMPIDIDAE (DIPTERA, ORTHORRAPHIDAE): ITS INTEREST FROM THE PHYLOGENETIC AND ECOLOGICAL POINTS OF VIEW. (FR)
P Trehen
Acad Sci Compt Rend Ser D Sci Nat 268(15, 1ST SEMESTER):1965-1968
14 Apr 1969 505 P21
Development, Empididae, Insect adaptation, Insect ecology, Insect evolution, Insect morphology, Larvae, Trachea.

7713-69
CHANGES TAKING PLACE IN THE RESPIRATORY EFFICIENCY OF ISOLATED FLIGHT MUSCLE SARCOSOMES, ASSOCIATED WITH THE AGE OF THE BLOWFLY, CALLIPHORA ERYTHROCEPHALA.
M A Tribe
Compar Biochem Physiol 23(2):607-619 REF
Nov 1967 444.8 C73
Aging, Calliphora vicina, Insect metabolism, Muscles, Respiration.

7714-69
LOCOMOTOR ACTIVITY IN DROSOPHILA--V. A COMPARATIVE BIOCHEMICAL STUDY OF SELECTIVELY BRED POPULATIONS.
G Tunnicliff J T Rick K Connolly
Compar Biochem Physiol 29(3):1239-1245 REF
Jun 1969 444.8 C73
Drosophila melanogaster, Insect behavior, Insect biochemistry, Insect rearing, Population.

7715-69
THE TOXIC EFFECT OF THREE ORGANOPHOSPHATE INSECTICIDES ON FEMALE LEBISTES RETICULATUS PETERS. (GE)
J Veger
Cesk Spolecnosti Zool Vestnik 31(1):88-95
Feb 1967 410.9 C33
Ekatin, Fish, Insecticides, Lebistes, Malathion, Organophosphorus compounds, Toxicology, Trichlorfon.

7716-69
BLACK DISEASE OF BOMBUS HYPNORUM. PRELIMINARY COMMUNICATION. (GE)
R Wagner
Hamburg Zool Staatsinst Zool Mus Entomol Mitt 3(64):5-6
30 Apr 1969 421 H17
Black discase, Bombus, Insect diseases.

7717-69
THE FINE STRUCTURE OF THE SPORES OF NOSEMA APIS. (GE)
W Wildfuhr W Fritzsch
Angew Parasitol 10(1):39-52 REF
Feb 1969 436.8 AN4
Cytology, Electron microscopy, Nosema apis, Spores. English and Russian abstracts.

7718-69
A COMPARISON OF THE CARBOHYDRATE COMPOSITION OF THE HEMOLYMPH AND FAT BODY OF PHORMIA REGINA DURING LARVAL DEVELOPMENT.
L T Wimer
Compar Biochem Physiol 29(3):1055.1062 REF
Jun 1969 444.8 C73
Blood, Carbohydrates, Fat body, Insect biochemistry, Larvae, Metamorphosis, Phormia regina.

7719-69
OVIPOSITION IN DDT RESISTANT AND SUSCEPTIBLE STRAINS OF AEDES AEGYPTI (L.) IN RELATION TO LIGHT PREFERENCE.
R J Wood
Bull Entomol Res 52(3):541-560, BIBL. 558-560, TABS.
Oct 1961 421 B87
Aedes aegypti, DDT, Lighting, Oviposition.

7720-69
LABORATORY CULTURE OF CHIRONOMID SPECIES FROM THE HULA NATURE PRESERVE, ISRAEL.
D Wool J Kugler
Ann Zool Fenn 5(1):153-154
1968 410 AN712
Chironomidae, Insect cultures, Insect morphology, Insect rearing, Larvae.

7721-69
OBSERVATIONS ON PHORESY IN LAMPROCHERNES NODOSUS (SCHRANK). (GE)
E Zielke
Hamburg Zool Staatsinst Zool Mus Entomol Mitt 3(64):1-3
30 Apr 1969 421 H17
Chernetidae, Diptera, Insect physiology, Phoresy.

7722-69
ON THE ABSENCE OF CIRCADIAN RHYTHMICITY IN DROSOPHILA PSEUDOOBSCURA PUPAE.
W F Zimmerman
Biol Bull 136(3):494-500 REF
Jun 1969 442.8 B52
Diurnal rhythm, Drosophila pseudoobscura, Insect behavior, Light, Pupae, Temperature.

GENETICS

7723-69
PATTERNS OF RIBONUCLEIC ACID SYNTHESIS IN SALIVARY GLANDS OF RHYNCHOSCIARA ANGELAE LARVAE DURING DEVELOPMENT.
H A Armelin R Meneghini F J S Lara
Genet Soc Amer Rec 61(1,PT 2,SUPPL):351-360 REF
1969 442.9 G28
Cytogenetics, Development, Larvae, Rhynchosciara, Ribonucleic acid, Salivary glands (insects), Synthesis.

7724-69
PATTERNS OF PUFFING ACTIVITY IN THE SALIVARY GLAND CHROMOSOMES OF DROSOPHILA. I. AUTOSOMAL PUFFING PATTERNS IN A LABORATORY STOCK OF DROSOPHILA MELANOGASTER.
M Ashburner
Chromosoma 21(4):398-428 REF
06 Jun 1967 442.8 C46
Chromosomes, Drosophila melanogaster, Insect genetics, Metamorphosis, Molting (insects), Salivary glands (insects).

7725-69
SOME ASPECTS OF THE BOBBED PROBLEM IN DROSOPHILA.
K C Atwood
Genet Soc Amer Rec 61(1,PT 2,SUPPL):319-327 REF
1969 442.9 G28
Drosophila melanogaster, Genes, Insect genetics, Ribosomes.

7726-69
GENETIC MARKERS IN THE BOLL WEEVIL.
A C Bartlett
J Hered 58(4,JUL-AUG):159-162 REF
Aug 1967 442.8 AM3
Anthonomus grandis, Genes, Insect genetics, Insect morphology, Insect mutation.

7727-69
DEVELOPMENTAL CONTROL OF HETEROCHROMATIZATION IN COCCIDS.
S W Brown
Genet Soc Amer Rec 61(1,PT 2,SUPPL):191-198 REF
1969 442.9 G28
Chromosomes, Coccidae, Development, Insect genetics.

7728-69
POLYTENE CHROMOSOMES OF OVARIAN NURSE CELLS OF THE GAMBIAE COMPLEX OF THE GENUS ANOPHELES. (IT)
M Coluzzi
Parassitologia 10(2-3,OCT-DEC):179-183 REF
Dec 1968 436.8 P212
Anopheles gambiae, Chromosomes, Cytogenetics, Insect genetics, Meiosis, Ovaries. English abstract.

7729-69
CYTOGENETIC OBSERVATIONS ON SPECIES C OF THE ANOPHELES GAMBIAE COMPLEX.
M Coluzzi A Sabatini
Parassitologia 10(2-3,OCT-DEC):155-165 REF
Dec 1968 436.8 P212
Anopheles gambiae, Chromosomes, Cytogenetics, Insect genetics.

7730-69
A NEW GENE ARRANGEMENT IN THE THIRD CHROMOSOME OF DROSOPHILA PSEUDOOBSCURA.
D W Crumpacker C D Kastritsis
J Hered 58(1,JAN-FEB):3-6
Feb 1967 442.8 AM3
Chromosomes, Drosophila pseudoobscura, Genes, Insect genetics.

7731-69
THE EFFECTS OF X-RAYS ON THE CHROMOSOMES OF LOCUST EMBRYOS. III. THE CHROMATID ABERRATION TYPES.
D P Fox
Chromosoma 20(4):386-412 REF
16 Feb 1967 442.8 C46
Chromatin, Insect eggs, Insect genetics, Mutation, Schistocerca gregaria, X-rays.

7732-69
THE EFFECTS OF X-RAYS ON THE CHROMOSOMES OF LOCUST EMBRYOS. IV. DOSE-RESPONSE AND VARIATION IN SENSITIVITY OF THE CELL CYCLE FOR THE INDUCTION OF CHROMATID ABERRATIONS.
D P Fox
Chromosoma 20(4):413-441 REF
16 Feb 1967 442.8 C46
Chromatin, Chromosomes, Dosage, Insect eggs, Insect genetics, Schistocerca gregaria, X-rays.

7733-69
CELL DIFFERENTIATION IN THE SALIVARY GLANDS OF CAMPTOCHIRONOMUS TENTANTS AND C. PALLIDIVITTATUS.
U Grossbach
Ann Zool Fenn 5(1):37-40 REF
1968 410 AN712
Chironomidae, Chromosomes, Cytology, Insect genetics, Salivary glands (insects).

7734-69
MORPHOLOGICAL VARIABILITY OF THE CHROMOSOMAL FUNCTIONAL STRUCTURES IN THE SPERMATOCYTE NUCLEI OF DROSOPHILA SPECIES. (GE)
O Hess
Chromosoma 21(4):429-445 REF
06 Jun 1967 442.8 C46
Cell nucleus, Chromosomes, Drosophila, Insect genetics, Insect morphology, Spermatocytes. English abstract.

7735-69
THE B-CHROMOSOME SYSTEM OF MYRMELEOTETTIX MACULATUS (THUNB.). III. THE STATISTICS.
G M Hewitt B John
Chromosoma 21(2):140-162 MAP REF
21 Mar 1967 442.8 C46
Chromosomes, Insect genetics, Myrmeleotettix maculatus, Population, Rainfall, Statistical analysis, Temperature.

7736-69
ACTINOMYCIN D INDUCED CHROMOSOME BREAKAGE AND SUPPRESSION OF MEIOSIS IN THE LOCUST, SCHISTOCERA GREGARIA.
H K Jain U Singh
Chromosoma 21(4):463-471 REF
06 Jun 1967 442.8 C46
Actinomycin d, Chromosomes, Insect genetics, Meiosis, Schistocerca gregaria.

7737-69
KARYOTYPE VARIATION IN DERMESTID BEETLES.
B John D D Shaw
Chromosoma 20(4):371-385 REF
16 Feb 1967 442.8 C46
Chromosomes, Dermestidae, Insect genetics, Polymorphism.

7738-69
FUNCTIONAL STRUCTURES IN OOCYTE NUCLEI OF LOCUSTA MIGRATORIA. (GE)
W Kunz
Chromosoma 20(3):332-370 REF
27 Jan 1967 442.8 C46
Autoradiography, Cell nucleus, Chromosomes, Insect eggs, Locusta migratoria. English abstract.

7739-69
CYTOCHEMICAL INVESTIGATIONS ON PUFFS ISOLATED FROM SALIVARY GLAND CHROMOSOMES OF CHIRONOMUS. (GE)
M Lezzi
Chromosoma 21(1):89-108 REF
02 Mar 1967 442.8 C46
Chironomus tentans, Chromosomes, Insect biochemistry, Insect genetics, Salivary glands (insects). English abstract.

7740-69
AMPLIFICATION OF RIBOSOMAL CISTRONS IN THE HETEROCHROMATIN OF ACHETA.
A Lima-de-Faria M Birmstiel H Jaworska
Genet Soc Amer Rec 61(1,PT 2,SUPPL):145-159 REF
1969 442.9 G28
Acheta domesticus, Chromosomes, Deoxyribonucleic acid, Genes, Insect genetics, Ribosomes.

7741-69
HERITABILITY OF SPOT-NUMBER IN SCILLONIAN STRAINS OF THE MEADOW BROWN BUTTERFLY (MANIOLA JORTINA).
K McWhirter
Heredity 24(2):314-318
May 1969 443.8 H42
Inheritance, Insect genetics, Insect morphology, Maniola jurtina, Satyridae, Statistical analysis.

7742-69
COMPLEX SEX-DETERMINING MECHANISMS IN THREE SPECIES OF SOUTH AMERICAN GRASSHOPPERS (ORTHOPTERA, ACRIDOIDEA).
A Mesa R S de Mesa
Chromosoma 21(2):163-180 MAP REF
21 Mar 1967 442.8 C46
Acridoidea, Chromosomes, Insect genetics, Sex.

7743-69
THE STOCHASTIC SIMULATION OF TRIBOLIUM POPULATIONS.
B S Niven
Physiol Zool 40(1):67-82 REF
Jan 1967 410 P56
Insect genetics, Mathematical analysis, Population, Tribolium castaneum.

7744-69
PHASE TRANSFORMATION AND CHIASMA FORMATION IN LOCUSTS.
D J Nolte
Chromosoma 21(2):123-139 MAP REF
21 Mar 1967 442.8 C46
Chromosomes, Insect behavior, Insect genetics, Locusta migratoria migratorioides, Meiosis, Polymorphism.

7745-69
THE NUCLEOLAR DNA OF THREE SPECIES OF DROSOPHILA IN THE HYDEI COMPLEX.
O Olvera R
Genet Soc Amer Rec 61(1,PT 2,SUPPL):245-249
1969 442.9 G28
Cell nucleus, Deoxyribonucleic acid, Drosophila hydei, Insect genetics.

7746-69
HETEROZYGOOS PUFFS IN SCIARA OCELLARIS.
A L P Perondini E M Dessen
Genet Soc Amer Rec 61(1, PT 2, SUPPL):251-259 REF
1969 442.9 G28
Autoradiography, Chromosomes, Cytogenetics, Insect genetics, Polymorphism, Sciara.

7747-69
A MOLECULAR APPROACH TO THE STUDY OF GENIC HETEROZYGOSITY IN NATURAL

POPULATIONS, III. DIRECT EVIDENCE OF COADAPTATION IN GENE ARRANGEMENTS OF DROSOPHILA.
S Prakash R C Lewontin
Nat Acad Sci Proc 59(2):398-405 REF
Feb 1968 500 N21P
Drosophila, Electrophoresis, Enzymes, Insect evolution, Insect genetics.

7748-69
THE POLYTENIC CHROMOSOMES OF THE BRISTLE FORMING CELL OF CALLIPHORA ERYTHROCEPHALA WITH SPECIAL CONSIDERATION ON THE SEX-LINKED HETEROZYGOUS STRUCTURE AND THE PUFF MODEL DURING METAMORPHOSIS. (GE)
D Ribbert
Chromosoma 21(3):296-344 REF
12 May 1967 442.8 C46
Calliphora vicina, Chromosomes, Insect genetics, Meiosis, Metamorphosis, Polyploidy. English abstract.

7749-69
HERITABILITY OF PHOTOTACTIC AND GEOTACTIC RESPONSES IN DROSOPHILA PSEUDOOBSCURA.
R C Richmond
Amer Natur 103(931,MAY-JUN):315-316
30 Jun 1969 470 AM36
Drosophila pseudoobscura, Geotropism, Insect behavior, Insect genetics, Phototropism.

7750-69
EQUILIBRIUM VARIATIONS IN THE REDUNDANCY OF DNA IN DROSOPHILA MELANOGASTER.
F M Ritossa G Scala
Genet Soc Amer Rec 61(1,PT 2,SUPPL):305-317 REF
1969 442.9 G28
Drosophila melanogaster, Insect biochemistry, Insect genetics, Ribonucleic acid, Ribosomes.

7751-69
NON REPLICATING DNA IN DROSOPHILA.
G T Rudkin
Genet Soc Amer Rec 61(1,PT 2,SUPPL):227-238 REF
1969 442.9 G28
Chromosomes, Cytogenetics, Deoxyribonucleic acid, Drosophila melanogaster, Spectrophotometry.

7752-69
MUTANT TRAITS OF THE LARVAL AND PUPAL STADIA OF THE WAX MOTH.
T L Smith
J Hered 58(4,JUL-AUG):179-184
Aug 1967 442.8 AM3
Galleria mellonella, Insect genetics, Insect morphology, Insect mutation, Larvae, Pupae.

7753-69
STUDIES IN AGING: IV. GENETIC CONTROL OF PIGMENT ACCUMULATION AND ITS BEARING ON THE ADULT LIFE SPAN IN DROSOPHILA MELANOGASTER.
K C Sondhi
J Hered 58(1,HJAN-FEB):47-52 REF
Feb 1967 442.8 AM3
Aging, Drosophila melanogaster, Insect genetics, Insect morphology, Longevity, Pigments (insect), Population.

7754-69
STUDIES IN AGING, VI. GENES, DEVELOPMENTAL ENVIRONMENT, AND THE EXPRESSION OF AGING PROCESSES IN DROSOPHILA MELANOGASTER.
K C Sondhi
Nat Acad Sci Proc 59(3):785-791 REF
Mar 1968 500 N21P
Aging, Development, Drosophila melanogaster, Genes, Insect genetics.

7755-69
PSEUDO-MULTIPLE FORMATION AS A CONSEQUENCE OF PROLONGED NON-HOMOLOGOUS CHROMOSOME ASSOCIATION IN METRIOPTERA BRACHYPTERA.
D I Southern
Chromosoma 21(3):272-284
12 May 1967 442.8 C46
Chromosomes, Insect genetics, Meiosis, Tettigoniidae.

7756-69
MUTATION IN DROSOPHILA BY METHYLAZOXYMETHANOL, THE AGLYCONE OF CYCASIN.
H J Teas J G Dyson
Soc Exp Biol Med Proc 125(3):988-990
Jul 1967 442.9 SO1
Drosophila melanogaster, Insect genetics, Insect mutation, Mutagens.

7757-69
INHERITANCE OF DDT RESISTANCE IN CULEX PIPIENS FATIGANS WIEDEMANN.
V Thomas
J Econ Entomol 59(4):779-786
Aug 1966 421 J822
Culex pipiens quinquefasciatus, DDT, Heredity, Insecticide resistant insects.

7758-69
HONEY BEE DRONES WITH JET BLACK BODIES.
K W Tucker H H Laidlaw
J Hered 58(4,JUL-AUG):184-185
Aug 1967 442.8 AM3
Apis mellifera, Cuticle, Insect genetics, Insect morphology, Pigments (insect).

7759-69
SUPERNUMERARY CHROMOSOMES IN THE HUMAN BED BUG, CIMEX LECTULARIUS LINN. (CIMICIDAE: HEMIPTERA).
N Ueshima
Chromosoma 20(3):311-331 REF
27 Jan 1967 442.8 C46
Chromosomes, Cimex lectularius, Insect evolution, Insect genetics, Zoogeography.

MEDICAL ENTOMOLOGY

7760-69
SELECTIVE CONTROL OF SIMULIUM DAMNOSUM AND RIVER MANAGEMENT.
W E Kershaw
Entomologist (london) 102(1272):98
May 1969 421 EN8
Chemical control (insects), DDT, Human diseases, Insect vectors, Nematodes, Onchocerca volvulus, Simulium damnosum.

CROP PROTECTION

7761-69
DISEASE AND INSECT CONTROL; SPRAY SCHEDULES FOR THE CONTROL OF PESTS IN BACKYARD FRUITS.
B F Janson H Y Forsythe R L Miller B M Jones G W Still
Ohio State Univ Ext Leafl (L-1, REV):8P
Apr 1969 275.29 OH32EL
Carbamates, Chemical control (pests), Chemical control (plant diseases), Chlorinated hydrocarbons, Fruit, Pesticide safety, Spraying equipment.

7762-69
1968 VEGETABLE CROP INVESTIGATIONS IN SOUTHWEST KANSAS.
M T Jones
Kan Agr Exp Sta Rep Progr (143):22P
Mar 1969 100 K133P
Crop yields, Crops, Horticulture, Plant adaptation, Seeds, Vegetables.

7763-69
TESTING OF FUNGICIDES AND INSECTICIDES 1967. (DA)
E Noddegaard T Hansen A N Rasmussen
Tidsskr Plant 72(3):273-321
1968 11 T439
Fungicides, Greenhouses, Insecticides, Plant nematodes, Plant protection, Seed treatment, Soil sterilization, Storage. English summary.

Results of annual testing of pesticides. Many pesticides, insects and fungus diseases are listed.

7764-69
A NEW METHOD FOR CONTROLLING TREE SIZE .
F D Rauch J P Mahlstede
Iowa Farm Sci 23(11):7-8
May 1969 275.28 IO94
Chemicals, Trees. English summary.

DISEASES

7765-69
MEMORANDUM ON PLANT PATHOLOGY. (SP)
M G Alvarez
Fitofilo 21(57,JAN-MAR):23-32
Mar 1968 421 F55
Chemical control (plant diseases), Plant disease control, Plant disease resistance, Vegetables.

7766-69
LOOSE SMUT OF OATS.
Anonymous
Agr Gaz New S Wales 80(2):BACK COVER
Feb 1969 23 N472
Fungus diseases (plants), Loose smut, Oats, Plant disease resistance, Ustilago hordei.

The most satisfactory method of controlling loose smut is by the use of resistant or tolerant oat varieties such as Acacia, Avon, Ballidu, Bundy, Garry, Kent, Mugga, Belah, Coolibah, Dale, and Fulmark.

7767-69
BLACKLEG OF CABBAGE, CAULIFLOWER AND RELATED PLANTS. (LEPTOSPHAERIA MACULANS).
Anonymous
Agr Gaz New S Wales 80(9):BACK COVER
Apr 1969 23 N472
Blackleg, Cabbage, Cauliflower, Cultural control (plant diseases), Fungus diseases (plants), Leptosphaeria.

7768-69
STRUCTURES DERIVED FROM COWPEA CHLOROTIC MOTTLE AND BROME MOSAIC VIRUS PROTEIN.
J B Bancroft C E Bracker G W Wagner
Virology 38(2):324-335 REF
Jun 1969 448.8 V81
Bromus, Cowpeas, Mosaic, Mottle (cowpeas), Proteins, Viruses. English summary.

7769-69
INTENSIVE FIELD COMPARISON OF FUNGICIDES FOR APPLE MILDEW CONTROL.
M Bennett M H Moore
East Malling Res Sta Annu Rep (A51):145-150
1968 103 EA7
Apples, Binapacryl, Chemical control (plant diseases), Fungicides, Lime, Methyl-2,3-quinoxalinedithiol cyclic carbonate, 6-, Podosphaera leucotricha, Sulfur.

7770-69
PHYTOPHTHORA CINNAMOMI RANDS ON CONIFERS IN NEW SOUTH WALES.
A L Bertus
Agr Gaz New S Wales 79(12):751-754
Dec 1968 23 N472

Conifers, Fungus diseases (plants), Phytophthora cinnamomi, Plant disease resistance, Root rot.

7771-69
CONTROL OF ANTHRACNOSE OF GRAPES IN THE TRANSVAAL.
B H Boelema
S Afr J Agr Sci 11(3):567-574 REF
Sep 1968 24 SU3
Anthracnose, Copper compounds, Elsinoe ampelinum, Folpet, Fungicides, Fungus diseases (plants), Grapes, Mildew (plants), Uncinula necator.

Both organic and copper fungicides gave satisfactory control of anthracnose of grapes (Sphaceloma ampelinum) in field trials conducted at the Horticultural Research Institute, Pretoria. The copper fungicides were phytotoxic, the fixed coppers more so than homemade Bordeaux mixture. Most of the organic fungicides encouraged the development of mildew (Oidium tuckeri). Folpet was the only fungicide that, in controlling anthracnose, did not encourage mildew; it was not phytotoxic.

7772-69
DISEASE RESISTANCE BREEDING.
R D Brock
Australian Inst Agr Sci J 33(2):72-76 REF
Jun 1967 23 AU74
Plant breeding, Plant disease resistance, Plant diseases, Plant genetics, Potatoes, Tobacco, Wheat.

7773-69
PHYTOPHTHORA INFESTANS SPORANGIAL GERMINATION AND TUBER ROT REDUCED BY SOIL RESIDUES OF FUNGICIDES.
R C Cetas S S Leach
Amer Potato J 46(5):174,178, 182
May 1969 75.8 P842
Difolatan, Fungicides, Late blight (potatoes), Phytophthora infestans, Seed germination, Soil treatment, Soils.

7774-69
TESTING CHERRY ROOTSTOCKS FOR RESISTANCE TO INFECTION BY RASPBERRY RINGSPOT AND CHERRY LEAF ROLL VIRUSES.
R. Cropley
East Malling Res Sta Annu Rep (A51):141-143 REF
1968 103 EA7
Cherries, Crop varieties, Leaf roll, Plant breeding, Plant disease resistance, Ring spot, Virus diseases (plants).

7775-69
THE UREDINALES ON MEXICAN GRAMINEAE.
G B Cummins
Southwest Natur 12(1):70-86
20 Apr 1967 409.6 SO8
Fungus diseases (plants), Grasses, Taxonomy, Uredinales.

7776-69
SCREENING OF INDIAN PLANTS FOR BIOLOGICAL ACTIVITY: PART I.
M L Dhar M M Dhar B N Dhawan Mehrotra C Ray
Indian J Exp Biol 6(4):232-247 REF
Oct 1968 442.8 IN2
Biological assay, Drug plants, Plant extracts.

Two hundred and eighty-five botanically identified plant materials have been extracted with 50 per cent ethanol and put through a wide biological screen of 61 tests. These include tests for antibacterial, antifungal, antiviral, antihelminthic, antiprotozoal, anticancer, antifertility, hypoglycaemic and a wide range of pharmacological activities.

7777-69
ROOT ROT OF YOUNG MAIZE PLANTS--THE CASUAL FUNGI.
J J Du Toit
S Afr J Agr Sci 11(3):595-604 REF
Sep 1968 24 SU3
Corn, Fungus diseases (plants), Fusarium moniliforme, Fusarium oxysporum, Helminthosporium, Pathogenicity, Root rot.

7778-69
BACTERIAL SPOT OF IVY CAUSED BY XANTHOMONAS HEDERAE (ARNAUD, 1920) DOWSON, 1939, IN NEW ZEALAND.
D W Dye
New Zealand J Sci 10(2):481-485
Jun 1967 514 N482
Bacterial diseases (plants), Hedera, Xanthomonas.

Bacterial spot of ivy caused by the organism Xanthomonas hederae is recorded in New Zealand for the first time. The symptoms consist of large circular to angular leaf lesions frequently surrounded by chlorotic areas, leaf wilting and defoliation.

7779-69
THE BASES OF DEFFERENTIATING SCLEROSPORA PHILIPPINENSIS WESTON AS A SPECIES DISTINCT FROM SCLEROSPORA SACCHARI MIYAKE.
F A Elazegui O R Exconde
Philippine Agr 51(10):767-778
Mar 1968 25 P542
Biology, Corn, Fungus diseases (plants), Sclerospora, Sugarcane, Taxonomy.

7780-69
FUNGAL ROOT ROTS, LEAF SPOTS AND BOLL ROT OF COTTON IN THE ORD VALLEY, NORTH WESTERN AUSTRALIA.
J P Evenson R Doepel
Empire Cotton Growing Rev 46(1):49-52 REF
Jan 1969 72.8 EM7
Boll rot (cotton), Cotton, Fungus diseases (plants), Leaf spot, Root rot.

7781-69
BACTERIA ASSOCIATED WITH FROST-DAMAGED APPLE BLOSSOMS.
C M E Garrett
East Malling Res Sta Annu Rep (A51):139-140
1968 103 EA7
Apples, Bacterial diseases (plants), Frost, Pears, Pseudomonas.

7782-69
UTILIZATION OF OLIGOSACCHARIDES BY TWO PATHOGENIC ISOLATES OF COLLETOTRICHUM DEMATIUM.
A K Ghosh
Lloydia 30(3):280-283
Sep 1967 442.8 L77
Colletotrichum dematium, Fungus diseases (plants), Oligosaccharides, Plant metabolism.

7783-69
THE INFLUENCE OF SOIL CONDITIONS ON DEVELOPMENT OF RHIZOCTONIA SOLANI, KUHN, ON TOBACCO.
W F T Hartill
Rhodesia J Agr Res 6(2):77-79
1968 24 R3472 (1)
Chemical control (plant diseases), Chlorinated hydrocarbons, Fungus diseases (plants), Meloidogyne incognita, Meloidogyne javanica, Methyl bromide, Rhizoctonia solani, Soil fumigation, Soil moisture, Tobacco.

7784-69
PLANT ANALYSES UNCOVER HIDDEN HUNGER IN INDIANA.
E L Hood
Better Crops Plant Food 43(1):19
1969 6 B46
Alfalfa, Boron, Corn, Crops, Limestone, Manganese, Nitrogen, Plant analysis, Potassium, Soybeans.

7785-69
FIRE AS AN AGENT IN THE ESTABLISHMENT OF A PLANT DISEASE.
M Jalaluddin
Pakistan J Sci 20(1-2,JAN-MAR):42-44
Mar 1968 475 P172
Air-borne plant diseases, Coniferae, Fires, Plant disease transmission, Plant physiology, Rhizinia inflata.

The heating of soil around fires where very little ash is deposited often increases the number of fruitifications of Rhizina, the agent of group dying of conifers, in the area, from which wind can carry spores to the burned area. The life cycle and growth experiments in soils from fire sites are discussed.

7786-69
THE EFFECTS OF SOME SOIL-BORNE FUNGI ON THE SEX RATIO OF HETERODERA ROSTOCHIENSIS ON TOMATO.
V Ketudat
Nematologica 15(2):229-233 REF
May 1969 436.8 N342
Fungus diseases (plants), Heterodera rostochiensis, Population, Rhizoctonia solani, Sex, Soil-borne plant diseases, Tomatoes, Verticillium albo-atrum.

7787-69
SOME OBSERVATIONS OF PEA ENATION MOSAIC VIRUS ISOLATED IN SLOVAKIA. (CZ)
B A Kvicala
Biologia (bratislava) 22(10):738-750 REF
1967 442.8 B5265
Acyrthosiphon pisum, Host indexing (plants), Insect vectors, Mosaic, Peas, Virus diseascs (plants). English and Russian abstracts.

7788-69
TRANSMISSION OF PEA LEAF ROLLING VIRUS BY APHIDS.
B A Kvicala M Musil
Biologia (bratislava) 22(1):10-15
1967 442.8 B5265
Acyrthosiphon pisum, Aphis craccivora, Aphis fabae, Insect vectors, Leaf roll, Myzus persicae, Peas, Plant disease transmission, Virus diseases (plants).

7789-69
DIFFERENCE IN THE TRANSMISSION OF PEA LEAF ROLLING VIRUS BY TWO STRAINS OF PEA APHID ACYRTHOSIPHON PISUM HARRIS.
B A Kvicala
Biologia (bratislava) 22(11):803-807 REF
1967 442.8 B5265
Acyrthosiphon pisum, Insect vectors, Leaf roll, Peas, Plant disease transmission, Virus diseases (plants).

7790-69
VECTOR-VIRUS RELATIONSHIP OF TWO LESS KNOWN APHID VECTORS OF PEA MOSAIC VIRUS.
B A Kvicala
Biologia (bratislava) 22(8):566-571 REF
1967 442.8 B5265
Brachycaudus helichrysi, Cryptomyzus ribis, Insect vectors, Mosaic, Peas, Plant disease transmission, Virus diseases (plants).

7791-69
SELF-CONSTRUCTION OF RNA EXTRACTS OF THREE DIFFERENT VIRUSES AND OF THE PROTEIN SUB-UNITS OF THE LUCERNE (ALFALFA) MOSAIC VIRUS,. (FR)
G Lebeurier M Wurtz L Hirth
Acad Sci Compt Rend Ser D Sci Nat 268(15, 1ST SEMESTER):2002-2005
14 Apr 1969 505 P21
Alfalfa, Biochemistry, Mosaic, Proteins, Ribonucleic acid, Virus diseascs (plants).

7792-69
THE PROTEIN SUBUNIT OF THE SATELLITE TOBACCO NECROSIS VIRUS.
J Lesnaw M E Reichmann
Virology 38(2):368-369
Jun 1969 448.8 V81
Necrosis, Proteins, Tobacco, Viruses.

7793-69
NUCLEAR CHANGES IN MESOPHYLL CELLS OF GOMPHRENA GLOBOSA L. ASSOCIATED WITH INFECTION BY BEET MOSAIC VIRUS.
G P Martelli M Russo
Virology 38(2):297-308 REF
Jun 1969 448.8 V81
Beets, Gomphrena globosa, Mosaic, Viruses. English summary.

7794-69
TOXIC METABOLITES PRODUCED BY FUNGI IMPLICATED IN MYCOTOXICOSES.
C J Mirocha C M Christensen G H Nelson
Biotechnol Bioeng 10(4):469-471
Jul 1968 381 J822
Fungi, Metabolites, Mycotoxicosis, Toxicology. English summary.

7795-69
A FIELD COMPARISON OF FUNGICIDES AS MEDIUM VOLUME SPRAYS ON APPLES.
M H Moore M Bennett
East Malling Res Sta Annu Rep (A51):151-157
1968 103 EA7
Apples, Captan, Dinocap, Dodine, Fungicides, Fungus diseases (plants), Phenylmercuric compounds, Podosphaera leucotricha, Venturia inaequalis.

7796-69
COINCIDENCE AND INCIDENCE OF ENTOMOPHTHORA FLORIDANA WITH AND IN EUTETRANYCHUS BANKSI IN FLORIDA CITRUS GROVES.
M H Muma
Fla Entomol 52(2):107-112
May 1969 420 F662
Biological control (insects), Citrus, Entomogenous fungi, Entomophthora, Eutetranychus banksi, Surveys.

7797-69
A PRELIMINARY STUDY ON THE EFFECT OF IRRADIATION ON GRAIN SMUT OF JOWAR.
S Nargis A Kafi
Pakistan J Sci 20(1-2,JAN-MAR):31-33 REF
Mar 1968 475 P172
Fungus diseases (plants), Gamma rays, Sorghum, Sphacelotheca sorghi, Spore germination.

Chlamydospores of grain smut of sorghum (Sphacelotheca sorghi) exposed to different doses of gamma rays from an 1800 Co 60 source revealed that at 200 Kr. the germination of spores was reduced by more than 50 per cent and was completely inhibited at 500 Kr.. Sorghum seeds were not affected up to 200 Kr. but the seed germination was reduced to 50 per cent at 500 Kr..

7798-69
YIELD EXPERIMENTS WITH POTATO VIRUS S-FREE AND POTATO VIRUS S-INFECTED BINTJE POTATOES. (DA)
P W Nielsen
Tidsskr Plant 72(3):367-368
1968 11 T439
Crop losses, Potatoes, Virus diseases (plants), Virus s. English summary.

7799-69
TOXINS IN PLANT DISEASE: STRUCTURE AND MODE OF ACTION.
L D Owens
Science 165(3888):18-25 REF
04 Jul 1969 470 SCI2
Enzymes, Plant diseases, Toxicology.

7800-69
STUDIES OF THE DEVELOPMENT OF POWDERY MILDEW (ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL) ON BARLEY. I. CONIDIA GERMINATION.
C Paulech
Biologia (bratislava) 22(10):721-730 REF
1967 442.8 B5265
Barley, Crop varieties, Erysiphe graminis hordei, Fungus diseases (plants), Powdery mildew, Spore germination.

7801-69
THERMODYNAMIC STATE OF THE WATER IN HEALTHY OR INFECTED GRAINS OF WHEAT. (FR)
J Pelhate
Ann Technol Agr 17(3):227-236 REF
1968 14 F8499AN
Aspergillus, Fungus diseases (plants), Penicillium, Plant physiology, Storage, Water, Wheat. English, Spanish and Italian summaries.

7802-69
INTRACELLULAR INCLUSIONS IN EPIDERMAL CELLS OF TOBACCO INFECTED BY TOBACCO RATTLE VIRUS.
B Plavsic-Banjac Z Polak
Biol Plant 11(3):245-247
1969 450 B52
Inclusion bodies, Plant cytology, Rattle disease, Tobacco, Virus discases (plants).

Internal symptoms in epidermal cells of rattle virus infected tobacco were investigated. Ring-, elipsoid-, and spindle-shaped inclusions were found in the period between the fourth and thirtieth day after inoculation of Samsun seedlings.

7803-69
GENUS CANDIDA BERKHOUT. IX. CONTINUOUS CULTIVATION OF CANDIDA ALBICANS.
M Pokorna A Kockova-Kratochvilova V Stuchlik L Hronska
Folia Microbiol 12(5):447-457 REF
1967 448.3 C332
Candida albicans, Culture media, Statistical analysis, Tissue culture.

7804-69
TOLERANCE OF VIRUS INFECTION IN CROP PLANTS.
A F Posnette
Rev Appl Mycol 48(3):113-118 REF
Mar 1969 405 R328
Bibliography, Crop varieties, Crop yields, Field crops, Nomenclature, Plant breeding, Plant disease resistance, Virus diseases (plants).

7805-69
WITHERING OF CITRUS TREES. (POR)
V Rossetti
Biologico 35(2):31-35
Feb 1969 442.8 B529
Citrus, Insect control, Insect vectors, Nematode vectors, Virus diseases (plants).

7806-69
THIN LAYER CHROMATOGRAPHICAL STUDIES ON PHENOLIC MARKERS OF THE GREENING VIRUS IN VARIOUS CITRUS SPECIES.
R E Schwarz
S Afr J Agr Sci 11(4):797-802
Dec 1968 24 SU3
Biochcmistry, Chromatography, Citrus, Diagnosis, Greening disease, Virus diseases (plants).

7807-69
MUTAGENIC EFFECTS OF ETHYL METHANESULFONATE ON RICE SEEDS.
J D Soriano
Natur Appl Sci Bul 20(3,JUL-SEP):237-247 REF
Jul 1967 475 P532
Deoxyribonucleic acid, Ethyl methanesulfonate, Fertility, Mutation, Radiation, Rice, Seed planting, Seedlings.

7808-69
PECTOLYTIC ACTIVITY OF PHYTOPATHOGENIC XANTHOMONADS.
M P Starr S Nasuno
J Gen Microbiol 46(3):425-433 REF
Mar 1967 448.3 J823
Biochemistry, Pectolytic enzymes, Xanthomonas.

7809-69
STUDIES ON THE ANTIGENIC ACTIVITIES OF YEAST. III. ISOLATION AND INHIBITION ASSAY OF THE OLIGOSACCHARIDES FROM ACID-HYDROLYSATE OF MANNAN OF CANDIDA ALBICANS.
S Suzuki H Sunayama
Jap J Microbiol 13(1):95-101
Mar 1969 448.8 J273
Antigens, Biological assay, Candida albicans, Metabolism, Oligosaccharides.

7810-69
LINEAR VARIATION IN STABILITY OF TOBACCO MOSAIC VIRUS TO STRIPPING OF PROTEIN BY DETERGENT.
J Symington
Virology 38(2):309-316
Jun 1969 448.8 V81
Mosaic, Proteins, Tobacco, Virus diseases (plants). English summary.

7811-69
EXPOSURE OF RIBONUCLEIC ACID AT BOTH ENDS OF TOBACCO MOSAIC VIRUS BY EXTENSIVE PROTEIN STRIPPING.
J Symington
Virology 38(2):317-323 REF
Jun 1969 448.8 V81
Mosaic, Proteins, Ribonucleic acid, Tobacco. English summary.

7812-69
PERFORMANCE OF SWEETCORN UNDER NATURAL EPIPHYTOTIC OF MAIZE DWARF MOSAIC VIRUS.
R W Toler A J Bockholt
Tex Agr Exp Sta Progr Rep (2648):3P
Jan 1969 100 T31P (2)
Crop varieties, Disease transmission, Dwarf mosaic, Insect vectors, Rhopalosiphum maidis, Sorghum halepense, Sweetcorn, Virus diseases (plants).

7813-69
THE RELATIVE INFLUENCE OF CHEMICAL AND PHYSICAL PROPERTIES ON THE FUNGITOXICITY OF TETRACHLOROISOPHTHALONITRILE AND SOME OF ITS ANALOGUES.
N J Turner R D Battershell
Boyce Thompson Inst Contrib 24(6,JAN-MAR):139-147 REF
Mar 1969 451 B69
Alternaria solani, Chemical control (plant diseases), Chemistry, Fungicides, Fungus diseases (plants), Isophthalonitrile, halogenated, Monilinia fructicola, Regression analysis.

Fungicidal activity of a series of halogenated isophthalonitriles was correlated with chemical reactivity, oil:water partition coefficients and vapor pressure. The most effective member of the series was tetrachloroisophthalonitrile, a broad spectrum foliage fungicide. Using the methods of regression analysis to correlate biological activity with chemical parameters, a positive relationship was found between fungicidal activity and the reactivity of the compounds with a model thiol compound. This suggests that the mode of action of these compounds involves reaction with thiol groups.

7814-69
MECHANICAL CONTROL OF LODGING IN RICE AND EXTENT OF REDUCTION IN YIELD DUE TO TOPPING.
S K C Verma
Madras Agr J 56(1):32-33
Jan 1969 22 M262
Crop yields, Cultural control (plant diseascs), Lodging, Plant physiological diseascs, Rice.

7815-69
SEED TREATMENT. SIMPLE AND CHEAP METHOD OF CONTROLLING DISEASES.
D Vir
Indian Farming 18(8):23-24
Nov 1968 22 IN283

Chemical control (plant diseases), Crop losses, Fungicides, Fungus diseases (plants), Mercury compounds, Organic compounds, Seed treatment, Seed-borne plant diseases.

7816-69
THE EFFECT OF THE BARLEY YELLOW DWARF VIRUS DISEASE ON BARLEY AND OATS IN THE WESTERN CAPE.
M B von Wechmar V D Wassermann
S Afr J Agr Sci 11(4):757-768 REF
Dec 1968 24 SU3
Barley, Crop losses, Crop varieties, Insect vectors, Oats, Rhopalosiphum padi, Virus diseases (plants), Yellow dwarf.

In controlled field experiments it was demonstrated for the first time that barley yellow dwarf virus (BYDV) could be an important factor limiting the yield of barley and oats in the Western Cape Province. The virus, successfully transmitted by the aphid Rhopalosiphum pali (L.), caused typical symptoms and severe yield reductions in both barley and oats, particularly when sown fairly early. Differences in cultivar susceptibility were demonstrated.

ARTHROPODS

7817-69
TWENTY-SECOND ANNUAL CONFERENCE REPORT ON COTTON INSECT RESEARCH AND CONTROL, NEW ORLEANS. 1969.
92P MAP
Feb 1969 1.967 A2C76
Biological control (insects), Chemical control (insects), Cotton, Cultural control (insects), Defoliants, Insect pests, Insecticide resistant insects, Insecticides, Reports, Research, Surveys.

7818-69
1969 CRANBERRY INSECT AND DISEASE CONTROL CHART.
Anonymous
1P
1969 275.29 M381I
Accident prevention, Chemical control (pests), Chemical control (plant diseases), Cranberries, Insect pests, Pesticides.

7819-69
MEALYBUGS.
Anonymous
Agr Gaz New S Wales 80(4):220-222
Apr 1969 23 N472
Carbophenothion, Chemical control (insects), Chlordane, Diazinon, Dieldrin, Insect biology, Insecticides, Methyl demeton, Pseudococcidae.

7820-69
A FIRST RECORD OF FRUIT-PIERCING NOCTUID MOTHS IN EUROPE.
H Banziger
Naturwissenschaften 56(4):218
Apr 1969 474 N213
Feeding, Figs, Fruit, Insect behavior, Insect nutrition, Insect pests, Noctuidae.

7821-69
CONTROL OF A SPRUCE BUDWORM OUTBREAK IN QUEBEC THROUGH AERIAL SPRAYING OPERATIONS.
J R Blais
Can Entomol 95(8):821-827, BIBL. 826-827
Aug 1963 421 C16
Aerial spraying, Choristoneura fumiferana, DDT, Forest insects, Quebec.

7822-69
NEW PESTS OF SUGARCANE IN MEXICO (SACCHARDSYDNE SACCHARIVORA WESTW.). (SP)
S F Caceres
Fitofilo 21(57,JAN-MAR):33-42
Mar 1968 421 F55
Benzene hexachloride, Delphacidae, Insect biology, Sugarcane, Zoogeography.

7823-69
LABORATORY DETERMINATION OF RESISTANCE TO TETRADIFON IN THE FRUIT TREE RED SPIDER MITE, PANONYCHUS ULMI (KOCH).
J E Cranham
East Malling Res Sta Annu Rep (A51):165-168
1968 103 EA7
Acaricides, Chemical control (insects), Insect eggs, Insect rearing, Panonychus ulmi, Sulfides, Tetradifon, Tetrasul.

7824-69
MERDMYZA NIGRIVENTRIS (DIPTERA, CHLOROPIDAE): ITS SYSTEMATIC STATUS, DEVELOPMENT AND HARMFUL ACTIVITY. (RUS)
L I Fedoseeva
Zool Zhur 48(5):701-708 REF
May 1969 410 R92
Chloropidae, Crop losses, Grain, Insect taxonomy. English abstract.

7825-69
THE BROAD MITE: HEMITARSONEMUS LATUS (BANKS) (ACARINA: TARSONEMIDAE).
J G Gellatley
Agr Gaz New S Wales 80(2):96-97
Feb 1969 23 N472
Beets, Chemical control (pests), Chlorinated hydrocarbons, Citrus, Dicofol, Endrin, Ethion, Hemitarsonemus latus, Host plants, Methyl demeton, Organophosphorus compounds, Sulfur compounds.

7826-69
PEAR PSYLLA CONTROL STUDIES.
E H Glass
N Y (state) Agr Exp Sta Res Circ (16):10P
Apr 1969 100 N48R
Chemical control (insects), Chlorinated hydrocarbons, Dichloro-2,2-bis(p-ethylphenyl)ethane, 1,1-, Endosulfan, Insecticide resistant insects, Morestan, Organophosphorus compounds, Pears, Psylla pyricola.

Other insecticides mentioned but less effective are malathion, Guthion, Imidan, Zolone, carbaryl, and Furadan.

7827-69
A PRELIMINARY SURVEY OF THE RELATIONSHIPS BETWEEN THE SOIL FAUNA AND THE ROOTS OF FRUIT TREES.
D J L Harding
East Malling Res Sta Annu Rep (A51):169-172
1968 103 EA7
Collembola, Fruit, Insect ecology, Mites, Roots, Soil fauna, Surveys, Symphyla.

7828-69
1969 RECOMMENDATIONS FOR INSECT CONTROL ON COMMERCIAL VEGETABLE CROPS.
W C Harding D Shriver M Tysowsky
Md Univ Ext Plant Pathol Mimeo (199):11P
Jan 1969 275.29 M363
Accident prevention, Chemical control (insects), Insect pests, Insecticides, Vegetables.

7829-69
OCCURRENCE OF BEMISIA TABACI (GENN.) IN THE FIELD AND ITS RELATION TO THE LEAF CURL DISEASE OF TOBACCO.
B G Hill
S Afr J Agr Sci 11(3):583-594 REF
Sep 1968 24 SU3
Bemisia tabaci, Insect vectors, Leaf curl, Surveys, Tobacco, Virus diseases (plants).

7830-69
CONTROL OF TEXAS CITRUS MITE WITH NEW ACARICIDES.
R B Johnson
Fla Entomol 52(2):73-77
May 1969 420 F662
Acaricides, Chemical control (insects), Eutetranychus banksi, Insect control, Oranges.

Seventeen acaricides were tested against Texas citrus mite, Eutetranychus banks, (McG.) in two experiments conducted on young 'Valencia' orange trees. The standard acaricides dicofol, oil, carbophenothion, and ethion were less effective than other experimental acaricides tested.

7831-69
ABSCISSION OF COTTON FLOWER BUDS AND PETIOLES CAUSED BY PROTEIN FROM BOLL WEEVIL LARVAE.
E E King H C Lane
Plant Physiol 44(6):903-906
Jun 1969 450 P692
Abscission, Anthonomus grandis, Cotton, Larvae, Plant injuries, Proteins, Tissue extracts.

Protein extracted from boll weevil larvae caused abscission of cotton flower buds and debladed petioles. Abscission of buds is preceded by a rapid and persistent flaring of bracts; cell proliferation is induced in the abscision zone of debladed petioles. A possible mode of transmission of the agent from larva to bud tissue is discussed.

7832-69
ON THE DISTRIBUTION OF THE INFESTATION OF THE CABBAGE GALLGNAT DASINEURA BRASSICAE, IN LARGE FIELDS. (GE)
W Kuhne
Beitr Entomol 17(1-2):287-297 REF
1967 421 B392
Cecidomyiidae, Cultural control (insects), Dasineura brassicae, Population, Rape. English and Russian abstracts.

7833-69
THE GRASS STUNT MITE, ACERIA NEOCYNODONIS KEIFER IN SOUTH AFRICA.
M K P Meyer
S Afr J Agr Sci 11(4):803-804
Dec 1968 24 SU3
Aceria neocynodonis, Cultural control (insects), Cynodon, Plant injuries.

7834-69
THE CONTROL OF ERNOBIUS MOLLIS LINNAEUS (COLEOPTERA: ANOBIIDAE) WITH DIELDRIN DIPS.
R H Milligan
New Zealand J Sci 10(4):1012-1019
Dec 1967 514 N482
Anobiidae, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, Insect behavior, Oviposition, Pseudotsuga menziesii.

Dip treatment of test billets with an emulsion containing 0.1 per cent dieldrin prevented oviposition by Ernobius mollis. Eggs were laid on billets treated with 0.05 per cent or lower; all first instar larvae were killed when the surfaces were pre-treated with 0.005 per cent or higher concentration. Dieldrin films did not repel ovipositing females but adult mortality resulted in fewer eggs being laid on billets dipped in 0.005 per cent or higher concentrations, than were laid on controls.

7835-69
AN OBSERVATION ON THE BASIC QUESTION OF THE RELIABILITY OF THE EFFICIENCY AND PERFORMANCE OF NATURAL ENEMIES AGAINST DESTRUCTIVE INSECTS. (GE)
G Morge
Beitr Entomol 17(1-2):225-233
1967 421 B392
Beneficial insccts, Insect biology, Lonchaea, Lonchaea bruggeri, Lonchaea seitneri, Lonchaca zetterstcdti, Natural control (insects), Population, Scolytidae. English and Russian abstracts.

7836-69
BASIC PREMISES OF A THEORY OF THE PROTECTION OF PLANTS AGAINST PESTS.
I Ya Polyakov
Entomol Rev 47(2,APR-JUN):200-210 REF
Jun 1968 421 R322AE

Crop yields, Economic entomology, Insect biology, Insect ecology, Insect pests, Plant pest control, Plant protection, Population, Surveys. Russian journal-Entomologicheskoye Obozreniye, p. 343-361.

7837-69
RIDDING GROUNDNUT OF RED HAIRY CATERPILLAR.
K A Ramaswamy S Kuppuswamy T Santhanaraman
Indian Farming 18(8):21-22
Nov 1968 22 IN283
Amsacta, Benzene hexachloride, Carbophenothion, Chemical control (insects), Chlorinated hydrocarbons, Dichlorvos, Endrin, Imidan, Insecticides, Peanuts, Trichlorfon.

7838-69
STEM APPLICATIONS OF AZODRIN FOR CONTROL OF THE COTTON FLE AHOPPER.
R L Ridgway B G Reeves C B Cowan L H Wilkes D A Lindquist
J Econ Entomol 59(2):315-318, TABS.
Apr 1966 421 J822
Azodrin, Cotton, DDT, Insecticide application, Systemic insecticides, Toxaphene, Trichlorfon.

7839-69
THE COTTON LEAF WEEVIL, BUCCULATRIX THURB ERIELLA BUSCK. THE HISTORY HABITS, BIOLOGY AND METHODS OF CONTROL. (SP)
E Q Rocha
Fitofilo 21(57,JAN-MAR):15-21
Mar 1968 421 F55
Biological control (insects), Bucculatrix thurberiella, Carbaryl, Chemical control (insects), Cotton, Insect biology, Insect control, Malathion, Parathion, Trichlorfon.

7840-69
ON THE RELATIONSHIPS BETWEEN ANTS AND PARASITES OF COCCIDS AND APHIDS ON CITRUS.
D Rosen
Beitr Entomol 17(1-2):281-286 REF
1967 421 B392
Aphididae, Citrus, Coccidae, Coccophagus, Formicidae, Insect behavior, Insect ecology, Metaphycus, Microterys, Parasitic insects, Population.

7841-69
THE HYMENOPTEROUS PARASITES OF SOFT SCALES ON CITRUS IN ISRAEL.
D Rosen
Beitr Entomol 17(1-2):251-279 REF
1967 421 B392
Biological control (insects), Ceroplastes floridensis, Ceroplastes rusci, Citrus, Coccus hesperidum, Hymenoptera, Parasitic insects, Saissetia oleae, Zoogeography.

7842-69
A REVIEW OF HYMENOPTEROUS PARASITES OF CITRUS PEST APHIDS OF THE WORLD AND BIOLOGICAL CONTROL PROJECTS (HYM., APHIDIIDAE; HOM., APHIDOIDEA).
P Stary
Acta Ent Bohemoslov 64(1):37-61 REF
1967 420 C33
Aphididae, Aphidiinae, Biological control (insects), Citrus, Parasitic insects, Reviews.

7843-69
FOREST ENTOMOLOGY IN THE USSR.
A I Vorontsov
Entomol Rev 47(2,APR-JUN):165-174 REF
Jun 1968 421 R322AE
Attractants, Chemosterilants, Economic entomology, Forest insects, Insect outbreak forecasting, Integrated control (insects), Population, Surveys, Zoogeography. Russian journal-Entomologicheskoye Obozreniye, p. 280-297.

7844-69
THE INFLUENCE OF TOBACCO RING SPOT VIRUS AND TOBACCO MOSAIC VIRUS ON THE GROWTH OF MELOIDOGYNE JAVANICA.
A F Bird
Nematologica 15(2):201-209 REF
May 1969 436.8 N342
Beans, Meloidogyne javanica, Mosaic, Physiology, Ring spot, Tobacco, Tomatoes, Virus diseases (plants).

7845-69
SURVEY, IDENTIFICATION AND PATHOGENICITY TESTS OF NEMATODES ASSOCIATED WITH TOBACCO GROWN IN CAGAYAN VALLEY AND THE ILOCOS REGION.
R V Cortado R G Davide
Philippine Agr 51(10):779-801 REF
Mar 1968 25 P542
Pathogenicity, Plant nematodes, Surveys, Tobacco, Zoogeography.

7846-69
INFLUENCE OF TEMPERATURE ON POLYPHENOL OXIDASE ACTIVITY IN THREE SPECIES OF HETERODERA.
C Ellenby L Smith
Compar Biochem Physiol 21(1):51-57
Apr 1967 444.8 C73
Biochemistry, Heterodera avenae, Heterodera rostochiensis, Heterodera schachtii, Phenolases, Temperature.

7847-69
THE RESISTANCE OF RHABDITIS SP. AND ANGUINA TRITICI (NEMATODA) TO DRYING AND ACTION OF LOW AND SUPERLOW TEMPERATURES. (RUS)
T Namatov
Zool Zhur 48(5):658-668 REF
May 1969 410 R92
Anguina tritici, Drying, Mortality, Physiology, Plant nematodes, Rhabditis, Temperature. English abstract.

7848-69
RELATION BETWEEN VOLUMN AND CONTENTS OF CYSTS OF HETERODERA ROSTOCHIENSIS WOLLENWEBER. (GE)
H Stelter P C Gaur
Biol Zentralbl 88(1,JAN-FEB):85-90
Feb 1969 442.8 B523
Cysts, Heterodera rostochiensis, Volumetric analysis.

7849-69
IN VITRO FEEDING OF TELOTYLENCHUS LOOFI ON GREAT MILLET (SORGHUM VULGARE) ROOTS.
M G Tikyani S Khera
Nematologica 15(2):291-293
May 1969 436.8 N342
Plant nematodes, Roots, Sorghum, Tylenchidae.

7850-69
SURVEY, IDENTIFICATION AND HOST-PARASITE RELATIONSHIPS OF ROOT-KNOT NEMATODES OCCURRING IN SOME PARTS OF THE PHILIPPINES.
R B Valdez
Philippine Agr 51(10):802-824 REF
Mar 1968 25 P542
Plants, Root knot nematode, Surveys.

7851-69
GLASS-HOUSE AND LABORATORY STUDIES ON THE BIOLOGY OF THE NEEDLE NEMATODE, LONGIDORUS ELONGATUS.
A M Yassin
Nematologica 15(2):169-178 REF
May 1969 436.8 N342
Biology, Longidorus elongatus, Plant nematodes.

7852-69
COMPARISON OF THE EFFECTS OF ARSENIC AND AMITROLE (3-AMINO-1,2,4-TRIAZOLE) IN THE CONTROL OF ERIOCEREUS MARTINII (LAB.) RICC.
G Diatloff
Australian Inst Agr Sci J 33(2):109
Jun 1967 23 AU74
Amitrole, Ammonium thiocyanate, Arsenic compounds, Chemical control (weeds), Eriocereus martinii, Herbicides.

7853-69
A PROMISING NEW PRE-EMERGENCE HERBICIDE FOR GROUNDNUT.
D B Narsaiah L G Kulkarni R V Kumar
Indian Farming 18(11):31-33
Feb 1969 22 IN283
Chemical control (weeds), Dichlorophenyl-4-nitrophenyl ether, 2,4-, Economics, Herbicides, Peanuts.

7854-69
SELECTIVE HERBICIDES CONTROL WEEDS IN LUCERNE AT COWRA.
N S Tickner
Agr Gaz New S Wales 79(12):718-720
Dec 1968 23 N472
Alfalfa, Capsella bursa-pastoris, Chemical control (weeds), Costs, DPA, Herbicides, Hordeum, Paraquat.

7855-69
BROMACIL: AN EFFECTIVE NON-SELECTIVE HERBICIDE FOR CONTROLLING NUTSEDGE IN THE ORD RIVER VALLEY. W.A.
P J Van Rijn
Australian Inst Agr Sci J 33(2):118-119
Jun 1967 23 AU74
Bromacil, Chemical control (weeds), Cyperus, Cyperus esculentus, Herbicides.

OTHER PESTS

7856-69
STUDIES ON THE COMPOSITION OF EXTRACTS OF THE REPRODUCTIVE GLANDS OF AGRIOLIMAX RETICULATUS, THE GREY FIELD SLUG (PULMONATA, STYLOMMATOPHORA).
C J Bayne
Compar Biochem Physiol 23(3):761-773 REF
Dec 1967 444.8 C73
Amino acids, Glucose, Reproductive organs, Slugs, Tissues.

7857-69
DAMAGE TO THE FLOWERS OF FRUIT TREES BY BIRDS.
G H L Dicker
East Malling Res Sta Annu Rep (A51):159-163
1968 103 EA7
Bird pests, Crop losses, Flowers, Fruit, Pigeons, Sparrows.

7858-69
PHYSICO-CHEMICAL STUDIES OF PESTICIDES. III. EFFECT OF SOAP ON THE BIOLOGICAL ACTIVITY OF DDT SUSPENSIONS.
D K O'neill
J Sci Food Agr 14(6):442-448, 13 REFS., 6 FIGS.
Jun 1963 382 SO12
Biological control (insects), DDT, Soap, Tribolium.

LIVESTOCK PROTECTION

7859-69
THIOPENTAL ANAESTHESIA FOR CATS. (GE)
E Schimke E G Grunbaum
Monatsh Vet 23(16):635-638 REF

15 Aug 1968 41.8 M742
Anesthesia, Atropine, Cats. English and Russian summaries.

7860-69
RESIDUES IN MILK OF COWS FED RATIONS CONTAINING LOW CONCENTRATIONS OF FIVE CHLORINATED HYDROCARBON PESTICIDES.
S Williams P A Mills R E McDowell
J Sci Food Agr 16(7):II-43-4
Jul 1965 382 SO12
Cattle, Dieldrin, DDT, Endrin, Heptachlor epoxide, Lindane, Milk, Pesticide residues, TDE.

DISEASES

7861-69
BLOOD CHOLINESTERASE ACTIVITY AS AN INDEX OF ACUTE TOXICITY OF ORGANOPHOSPHORUS PESTICIDES IN SHEEP AND CATTLE.
P H Anderson A F Machin C N Hebert
Res Vet Sci 10(1):29-33 REF
Jan 1969 41.8 R312
Blood, Cattle, Cholinesterases, Organophosphorus, Pesticides, Sheep, Toxicology. English summary.

7862-69
USE OF ALVEOLAR MACROPHAGES FOR CULTIVATION OF CANINE DISTEMPER VIRUS.
M J G Appel O R Jones
Soc Exp Biol Med Proc 126(2):571-574 REF
Nov 1967 442.9 SO1
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LYMPHO CUTS FARM PROFITS ON SHEEP MEAT.
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New Zeal J Agr 118(5):77,79
May 1969 23 N48J
Caseous lymphadenitis, Corynebacterium, Goats, Infectious diseases, Livestock diseases, Sheep.

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A CASE OF TERATOMA IN THE LIVER OF SHEEP.
R G Arora P K R Iyer
Indian Vet J 46(3):203-204
Mar 1969 41.8 IN2
Li ver, Sheep, Teratoma, Tissue culture.

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Jan 1969 41.8 IN2
Immunology, Livestock diseases, Microbiology, Pregnancy, Salmonella abortusovis, Sheep.

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Monatsh Vet 23(16):613-617
15 Aug 1968 41.8 M742
Bedsonia virus, Cattle, Livestock diseases, Parainfluenza-3, Respiratory diseases, Scours, Virus diseases (animals). English and Russian summaries.

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Jan 1969 41.8 R312
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W M Beeson
Amer Vet Med Ass J 154(10):1220-1225 REF
15 May 1969 41.8 AM3
Alfalfa, Cattle, Nitrogen compounds, Proteins, Urea.

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MYCOTOXICOSIS ASSOCIATED WITH HEMORRHAGIC ENTEROCOLITIS AND ABORTION IN SWINE.
D I Blevins M W Glenn A H Hamdy T F Brodasky R A Evans
Amer Vet Med Ass J 154(9):1043-1050 REF
01 May 1969 41.8 AM3
Abortion, Animal diseases, Aspergillus, Diarrhea, Mycotoxicosis, Penicillium rubrum, Rhizopus, Swine.

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ACTIMOBACILLUS LIGNIERESII INFECTION IN A DOG.
A V Carb S K Liu
Amer Vet Med Ass J 154(9):1062-1067 REF
01 May 1969 41.8 AM3
Actinobacillus, Animal diseases, Diagnosis, Dogs.

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CAPRINE PNEUMONITIS CAUSED BY A VIRUS OF PSITTACOSIS LYMPHOGRANULOMA VENERUM (PLV) GROUP.
H V S Chauhan C M Singh
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B Chorvath
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Filters, Gels, Leptospira, Lipases, Serological tests.

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J Gen Microbiol 46(2):247-254 REF
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T J Cunha
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Animal nutrition, Antibiotics, Cattle, Diethylstilbestrol, Fattening, Hormones, Livestock, Micronutrients, Minerals, Urea, Vitamins.

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Deer, Goats, Serological tests, Surveys, Swine, Wildlife diseases.

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EXPERIMENTAL INFECTION OF CALVES WITH BOVINE ADENOVIRUS TYPES 1 AND 2.
J H Darbyshire D A Kinch A R Jennings
Res Vet Sci 10(1):39-45 REF
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Adenoviruses, Calves, Diarrhea, Pneumonia, Viruses. English summary.

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H K Dennig R Hebel
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Babesia, Cats, Cytology, Electron microscopy, Piroplasmosis. English abstract.

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MYOCARDIUM INFARCT IN HORSES WITH INFECTIOUS ANEMIA. (GE)
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Monatsh Vet 23(16):627-630
15 Aug 1968 41.8 M742
Equine infectious anemia, Heart, Horses, Livestock diseases, Myocardium, Thrombosis. English and Russian summaries.

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THE EXPERIMENTAL EFFECT OF GENTAMYCIN AND IN MASTITIS OF CATTLE. (GE)
R E Dunham
Giessen Justus Liebig Univ Veterinarmed Fak (inaug-diss) (30):5OP REF
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Antibiotics, Cattle, Gentamycin, Livestock diseases, Mastitis.

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Bluetongue virus, Morphology. English summary.

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J F Fernandes O Castellani E Kimura
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HEAT INACTIVATION OF FOOT-AND-MOUTH DISEASE VIRUS IN BLOOD PRODUCTS.
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Res Vet Sci 10(1):98-100
Jan 1969 41.8 R312
Blood, Cattle, Foot-and-mouth disease virus, Heat. English summary.

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THE PREVALENCE OF SALMONELLOSIS AND SYMPTOMATIC CARBUNCLES IN CATTLE SUBJECTED TO BACTERIOLOGICAL EXAMINATION DURING 1968, IN THE STATE OF SAO PAULO. (POR)
W Giorgi C Troise
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SWINE SALMONELLOSIS IN A HAWAIIAN PIGGERY.
J M Gooch R L Haddock
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Epizootic diseases, Salmonellosis, Surveys, Swine.

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J F D Greenhalgh G A M Sharman J N Aitken
Res Vet Sci 10(1):64-72 REF
Jan 1969 41.8 R312
Animals, Kale, Toxicology. English summary.

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POSSIBLE OCCURRENCE OF VIRAL PNEUMONIA IN INDIGENOUS SHEEP AND GOATS - A MORPHOLOGICAL STUDY OF PNEUMONIC LUNG LESIONS.
P P Gupta B S Rajya
Indian Vet J 46(3):205-208 REF
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Bronchiectasis, Goats, Hematoxylin, Infectious diseases, Pigmentation, Pneumonia, Sheep.

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LIVESTOCK HEALTH - PLANNING TO PREVENT PREGNANCY TOXAEMIA.
J S Healey
Agr Gaz New S Wales 80(2):85-87
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Animal nutrition, Pregnancy, Sheep, Toxemia.

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COSTS OF FEEDLOT DISEASE AND PREVENTION PROGRAMS.
J R Howard
Amer Vet Med Ass J 154(10):166-1167
15 May 1969 41.8 AM3
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J R Howard
Amer Vet Med Ass J 154(10):1201-1202
15 May 1969 41.8 AM3
Cattle, Diarrhea, Feedlots, Fever, Lymph nodes, Pleuropneumonia, Tissues.

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PURIFICATION OF THE FOOT-AND-MOUTH VIRUS BY MEANS OF FLUOROCARBON. (CZ)
R Hubik R Laznicka R Fepak
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(10):521-526 REF
Oct 1968 41.9 C333
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Antigens, Cattle, Ephemeral fever, Virus diseases (animals).

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BOVINE BRUCELLOSIS IN MADHYA PRADESH (A SEROLOGICAL STUDY).
R S Kataria G P Verma
Indian Vet J 46(1):13-16 REF
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Brucellosis, Buffaloes, Cattle, Livestock diseases, Pregnancy, Serological tests.

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N Klemenc J Prevorcnik V Gregorovic
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Virology 38(2):255-268 REF
Jun 1969 448.8 V81
Cells, Hamsters, Lipids, Monkeys, Parainfluenza, Plasma membrane, Viruses. English summary.

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BILIRUBINAEMIA IN THE DIFFERENTIAL DIAGNOSTICS OF HEPATOPATHIES AND INTERNAL DISEASES IN HORSES. (GE)
J Konrad
Monatsh Vet 23(16):622-626 REF
15 Aug 1968 41.8 M742
Bilirubin, Cirrhosis, Horses, Liver diseases, Livestock diseases. English and Russian summaries.

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THE DEVELOPMENT OF FOCI INCIDENCE OF BOVINE BRUCELLOSIS IN CZECHOSLOVAKIA. (CZ)
V Kouba
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 14(3):169-178 REF
Mar 1969 41.9 C333
Brucellosis, Cattle, Livestock diseases, Surveys. Russian, English and Germaa abstracts.

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THE PREVALENCE OF BRUCELLOSIS OF CATTLE IN CZECHOSLOVAKIA. (CZ)
V Kouba
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 14(2):113-122 REF
Feb 1969 41.9 C333
Brucellosis, Cattle, Livestock diseases, Surveys. Russian, English and German abstracts.

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THE INCIDENCE OF BRUCELLOSIS OF CATTLE IN CZECHOSLOVAKIA. (CZ)
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Oct 1968 41.9 C333
Brucellosis, Cattle, Livestock diseases, Surveys. Russian, English and German abstracts.

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D S Kronfeld R S Emery
Mod Vet Pract 50(4):45-49
Apr 1969 41.8 N812
Cattle, Grain, Ketosis, Nutrition.

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D R Laffra
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1968 41.2 AL23
Animal diseases, Arthritis, Dogs, Medicine, Orotic acid, Therapeutics, Toxicology, Veterinary medicine.

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B Lukas J Hruskova
Folia Microbiol 12(2):157-161 REF
1967 448.3 C332
Biochemistry, Chickens, Listeria monocytogenes, Pasteurella tularensis, Serum, Virucides.

Following the intravenous inoculation of chickens with large doses of living Francisella (Pasteurella) tularensis and Listeria monocytogenes, a virus inhibitor appeared in their serum. The first traces of the inhibitor were found four hours and the maximum levels eight and 24 hours after inoculation with a bacterial suspension. The administration of heat-inactivated microorganisms did not induce formation of the inhibitor. The dynamics of formation of the inhibitor and its properties resembled those of virus interferon.

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PREVALENCE OF SALMONELLAE IN VIRGINIA POULTRY FLOCKS AND IN FEED.
M B Marx
Amer Vet Med Ass J 154(9):1055-1056
01 May 1969 41.8 AM3
Feed contamination, Livestock diseases, Poultry, Salmonella, Surveys.

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Amer Vet Med Ass J 154(10):1226-1229
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Foot-and-mouth disease, Livestock.

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ROLE OF PROTOZOA IN RUMEN METABOLISM WITH SPECIAL REFERENCE TO BLOAT.
B Mishra
Indian Vet J 46(1):42-49 REF
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Animal physiology, Bloat, Cattle, Diet, Livestock diseases, Metabolism, Protozoa, Ruminants.

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WHAT'S NEW WITH BOVINE RESPIRATORY PROBLEMS.
D J Moeller
Amer Vet Med Ass J 154(10):1197-1200 REF
15 May 1969 41.8 AM3
Cattle, Immunization, Pasteurella multocida, Respiratory diseases. English summary

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ADVANCES IN CATTLE ECTOPARASITE CONTROL WITH A DISCUSSION OF SOME PROBLEMS RELATED TO TREATMENT WITH SYSTEMIC INSECTICIDES.
J O Mozier
Amer Vet Med Ass J 154(10):1206-1213
15 May 1969 41.8 AM3
Cattle, Ectoparasites, Hydrocarbons, Insecticides, Larvae, Organophosphorus.

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M Nakamura
Soc Exp Biol Med Proc 125(3):779-780
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Culture media, Methodology, Tissue culture, Trypanosoma cruzi.

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CLINICAL PATTERN OF NERVOUS DISTEMPER. (GE)
U Oldenburg
Monatsh Vet 23(16):634-635
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Canine distemper, Dogs, Nervous system diseases, Paresis. English and Russian summaries.

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CONTAGIOUS ECTHYMA IN SHEEP IN THE STATE OF SAO PAULO. (POR)
N S Piegas M R Nilsson
Biologico 34(12):265
Dec 1968 442.8 B529
Ecthyma, Livestock diseases, Sheep, Virus diseases (animals).

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INCIDENCE OF TUBERCULOSIS IN CATTLE IN RAJASTHAN.
A K Purohit P N Mehrotra
Indian Vet J 46(1):5-12 REF
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Buffaloes, Cattle, Livestock diseases, Tuberculin test, Tuberculosis.

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OBSERVATIONS ON THE INCIDENCE AND HISTOPATHOLOGY OF PNEUMONIA OF SHEEP AND GOATS IN INDIA.
S Ramachandran G L Sharma
Indian Vet J 46(1):16-29 REF
Jan 1969 41.8 IN2
Corynebacterium, Goats, Livestock diseases, Pasteurella, Pneumonia, Respiratory diseases, Sheep, Staphylococcus, Streptococcus.

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NABOTHIAN CYSTS IN BUFFALO CERVIX.
C R Sane B R Deshpande D P Velhankar R M Bhandari
Indian Vet J 46(1):29-32
Jan 1969 41.8 IN2
Buffaloes, Cervical malformation, Cysts, Livestock diseases, Reproductive organs.

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V A Sapre M L Mehta
Indian Vet J 46(3):183-190 REF
Mar 1969 41.8 IN2
Antigens, Fowl typhoid, Hemagglutination, Infectious diseases, Poultry, Pullorum disease, Salmonella.

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ACTINOMYCOSIS OF CATTLE, WITH CONSIDERATION OF ATYPICAL LOCALISATION. (GE)
H G Sattler
Monatsh Vet 23(16):607-613
15 Aug 1968 41.8 M742
Actinomycosis, Cattle, Livestock diseases. English and Russian summaries.

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DIAGNOSIS OF RINDERPEST.
G R Scott
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Diagnosis, Epizootic diseases, Methodology, Microorganisms, Rinderpest, Rinderpest virus, Serological tests, Virology, Virus diseases (animals).

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C M Singh
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Epizootic diseases, Poultry diseases, Surveys.

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P N Singh P B Kuppuswamy
Indian Vet J 46(3):209-210
Mar 1969 41.8 IN2
Bile ducts, Goats, Hematology, Infectious diseases, Liver.

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M G Smeal
Agr Gaz New S Wales 80(2):71-75
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Chemical control (animal diseases), Dairy equipment, Foot rot (animals), Formaldehyde, Fusiformis nodosus, Infectious diseases, Quarantine, Sheep.

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J M B Smith
New Zeal Vet J 16(10-11,OCT-NOV):166
Oct 1968 41.8 N483
Animal diseases, Aspergillosis, Cattle, Phycomycosis.

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J Tamalet M Brahic
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Chromatography, Hemagglutination, Japanese b encephalitis virus, Methodology.

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IMMUNOGENIC VALUE OF BIVALENT VACCINE OF ATIPIC FOWL PEST AND FOWL POX PRODUCED ON TISSUE CULTURE. (SE)
B Vasic N Vasic V Nedic D Tadic Z Kesic
Vet Glas 22(11):945-951 REF
1968 41.8 J93
Fowlpox, Immunology, Newcastle disease, Newcastle disease virus, Poultry diseases, Tissue culture, Vaccines, Viruses. English and Russian summaries.

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PURIFICATION AND CHARACTERIZATION OF BLUETONGUE VIRUS.
D W Verwoerd
Virology 38(2):203-212 REF
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Bluetongue virus, Morphology, Sheep. English summary.

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ABDOMINAL FAT NECROSIS AS A HERD PROBLEM IN GEORGIA CATTLE.
D J Williams D E Tyler E Papp
Amer Vet Med Ass J 154(9):1017-1021 REF
01 May 1969 41.8 AM3
Cattle, Intestines, Necrosis, Tissues. English summary.

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WHAT YOU CAN DO TO KEEP CHOLERA ERADICATION MOVING.
R Wilmore
Farm J H12-H14
Apr 1969 6 F2212C
Hog cholera, Legislation.

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RIBONUCLEIC ACIDS SYNTHESIZED IN VENEZUELAN EQUINE ENCEPHALITIS-INFECTED CELLS.
V M Zhdanov F I Yershov L V Uryvayev
Virology 38(2):355-358
Jun 1969 448.8 V81
Cells, Horses, Ribonucleic acid, Venezuelan equine encephalitis virus.

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A Kureck
Entomol Z 79(1-2):12
15 Jan 1969 421 EN85
Ceratopogonidae, Fish, Intestines, L arvae, Parasitic insects.

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D W Meifert G C LaBrecque J R Rye
Fla Entomol 52(2):55-60
May 1969 420 F662
Biological control (insects), Chemical control (insects), Chemosterilants, Coumaphos, Dimethoate, Hempa, Musca domestica, Poultry, Swine, Thiourea, Trichlorfon.

Field tests in poultry-caged-layer operations showed that hempa plus thiourea, hempa in sugar bait, trichlorfon in granular sugar bait and dimethoate in water all gave good control of house flies, Musca domestica. Releases of sterile flies in a pig-rearing establishment combined with weekly larvicide treatments reduced the field fly population by more than 5-fold.

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M D Murray G Gordon
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Bovicola ovis, Insect ecology, Population, Sheep.

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DIELTAMID-SPRAY AS AN ANT REPELLENT. (GE)
D Novak
Angew Parasitol 10(1):63
Feb 1969 436.8 AN4
Deet, Insect repellents, Monomorium pharaonis.

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THE SEQUENTIAL DEVELOPMENT OF NATURALLY OCCURRING OSTERTAGIASIS IN CALVES.
N Anderson J Armour F W Jennings J S D Ritchie G M Urquhart
Res Vet Sci 10(1):18-28 REF
Jan 1969 41.8 R312
Calves, Ostertagiasis. English summary.

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THE SYNTHESIS OF FATTY ACIDS FROM ACETATE BY INTACT TISSUE AND MUSCLE EXTRACT OF ASCARIS LUMBRICOIDES SUUM.
C G Beames B G Harris F A Hopper
Compar Biochem Physiol 20(2):509-521 REF
Feb 1967 444.8 C73
Acetates, Ascaris lumbricoides, Biochemistry, Fatty acids, Muscles, Radioactive tracers, Tissues.

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STUDIES ON MEMBRANE TRANSPORT. V. TRANSPORT OF LONG CHAIN FATTY ACIDS IN HYMENOLEPIS DIMINUTA (CESTODA).
L H Chappell C Arme C P Read
Biol Bull 136(3):313-326 REF
Jun 1969 442.8 B52
Biochemistry, Biological transport, Fatty acids, Hymenolepis diminuta.

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SPECTROPHOTOMETRIC STUDIES ON THE SUCCINATE OXIDASE SYSTEM OF TAENIA HYDATIGENA.
K S Cheah
Compar Biochem Physiol 20(3):867-875 REF
Mar 1967 444.8 C73
Biochemistry, Physiology, Spectrophotometry, Succinic oxidase, Taenia hydatigena.

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HISTOCHEMICAL AND SPECTROPHOTOMETRIC DEMONSTRATION OF PEROXIDASE IN MONIEZIA EXPANSA (CESTODA).
K S Cheah
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Aging, Histochemistry, Moniezia expansa, Peroxidases, Spectrophotometry.

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STEROLS IN ASCARIS LUMBRICOIDES.
R J Cole L R Krusberg
Compar Biochem Physiol 21(1):109-114 REF
Apr 1967 444.8 C73
Ascaris lumbricoides, Biochemistry, Sex, Sterols.

7936-69
THE COMPARATIVE BIOCHEMISTRY OF DEVELOPING ASCARIS EGGS-VII. MALATE OXIDATION AND METABOLISM IN UNEMBRYONATED EGGS.
L C Costello W Smith H Dya
Compar Biochem Physiol 21(1):161-170 REF

Apr 1967 444.8 C73
Ascaris lumbricoides, Biochemistry, Malate, Metabolism.

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ENDOCARDITIS IN HORSES. (GE)
M A Dobin
Monatsh Vet 23(16):630-633
15 Aug 1968 41.8 M742
Aorta, Endocarditis, Horses, Larvae, Livestock diseases, Parasitism. English and Russian summaries.

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ANTIGENS OF MONIEZIA EXPANSA: FL U ORESCENT ANTIBODY LOCALIZATION.
A E Duwe
Amer Microscop Soc Trans 86(2):126-131 REF
Apr 1967 440.9 AM33
Antibodies, Antigens, Electrophoresis, Immunofluorescence, Moniezia expansa, Serological tests.

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ON THE X-RAY DIAGNOSTICS OF INTESTINAL HELMINTHIASES OF POULTRY. (CZ)
K Fried J Jantosovic
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 14(2):147-154
Feb 1969 41.9 C333
Diagnosis, Helminthiasis, Intestines, Poultry diseases, X-rays. Russian, English and German abstracts.

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SYNGENEIC MARROW GRAFT: EFFECT ON PERSISTENCE OF PREIRRADIATION I MMUNITY TO HYMENOLEPIS NANA IN MICE.
W Friedberg B R Neas M H Friedberg D N Faulkner
Soc Exp Biol Med Proc 124(3):792-793
Mar 1967 442.9 SO1
Hymenolepis nana, Immunity, Mice, Tissue grafting, X-rays.

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ISOLATION OF COLLAGENS OF HIGH HYDROXYPROLINE, HYDROXYLYSINE AND CARBOHYDRATE CONTENT FROM MUSCLE LAYER OF ASCARIS LUMBRICOIDES AND PIG KIDNEY.
D Fujimoto
Biochim Biophys Acta 168(3):537-543 REF
03 Dec 1968 381 B522
Amino acids, Ascaris lumbricoides, Carbohydrates, Collagen, Hydroxylysine, Hydroxyproline, Muscles, Swine.

7942-69
CATALASE INHIBITION IN ASCARIDIA GALLI. (GE)
J Hovorka J Bencko P Lestan
Angew Parasitol 10(1):14-20 REF
Feb 1969 436.8 AN4
Ascaridia galli, Biochemistry, Catalase, Enzymes. English and Russian abstracts.

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METABOLISM OF ASCAROSIDES IN THE OVARIES OF ASCARIS LUMBRICOIDES (NEMATODA).
P F Jezyk D Fairbairn
Compar Biochem Physiol 23(3):707-719 REF
Dec 1967 444.8 C73
Anthelmintics, Ascaris lumbricoides, Metabolism, Ovaries.

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P F Jezyk D Fairbairn
Compar Biochem Physiol 23(3):691-705 REF
Dec 1967 444.8 C73
Anthelmintics, Ascaris lumbricoides, Biochemistry, Chromatography, Histochemistry.

7945-69
THE INFLUENCE OF SOME BIOLOGICAL AND ECOLOGICAL FACTORS ON THE CATALASE ACTIVITY IN ASCARIDIA GALLI.
P Lestan J Benckd
Biologia (bratislava) 22(10):762-768
1967 442.8 B5265
Ascaridia galli, Biological assay, Catalase, Ecology, Physiology.

7946-69
HISTOCHEMICAL MAPS OF THE LIPIDS IN THE EPIDERMAL ESOPHAGUS MUSCULATURE OF ASCARIS SUUM AND ASCARIDIA GALLI. (CONTRIBUTION TO THE STUDY OF THE STRUCTURE OF THE EPIDERMAL ESOPHAGUS MUSCULATURE OF MODEL ASCARIDS I.). (CZ)
P Lestan
Biologia (bratislava) 22(8):572-578 REF
1967 442.8 B5265
Ascaridia galli, Ascaris lumbricoides suum, Biochemistry, Esophagus, Histochemistry, Lipids, Muscles. German and Russian abstracts.

7947-69
OBLIGATE AND OPTIONAL HOSTS FOR HELMINTHS. (GE)
K Odening
Angew Parasitol 10(1):21-36 REF
Feb 1969 436.8 AN4
Animals, Helminthiasis, Parasitism. English and Russian abstracts.

7948-69
THE CELLULAR PATTERN IN INVASIVE ONCOSPHERES OF HYMENOLEPIS DIMINUTA AS REVEALED BY AN ENZYME--ACETIC ACID--ORCEIN METHOD.
R E Ogren
Amer Microscop Soc Trans 86(3):250-260
Jul 1967 440.9 AM33
Cytology, Histology, Hymenolepis diminuta, Rats.

7949-69
CONTEMPORARY VIEWS ON THE IMMUNOLOGICAL PROPHYLAXIS OF HELMINTHOLOGICAL DISEASES. (POL)
Z Przyjalkowski
Kosmos Ser A Biol 16(5):515-524 REF
1967 442.8 K84
Helminthiasis, Immunology, Nematodes, Reviews.

7950-69
A PHYSIOLOGICAL STUDY OF THE DEVELOPMENT OF THE EGG OF FASCIOLA HEPATICA L., THE COMMON LIVER FLUKE.
R A Wilson
Compar Biochem Physiol 21(2):307-320 REF
May 1967 444.8 C73
Biochemistry, Fasciola hepatica, Physiology.

7951-69
THE PROTONEPHRIDIAL SYSTEM IN THE MIRACIDIUM OF THE LIVER FLUKE, FASCIOLA HEPATICA L..
R A Wilson
Compar Biochem Physiol 20(1):337-342
Jan 1967 444.8 C73
Embryology, Fasciola hepatica, Kidneys, Light, Osmotic pressure, Temperature.

COMMODITY PROTECTION

7952-69
PHYTOSANITATION CAMPAIGNS FOR CARGO UNDER THE DIRECTOR GENERAL FOR VEGETABLE SANITATION. (SP)
D L Arrieta R C Padilla
Fitofilo 21(57,JAN-MAR):5-14
Mar 1968 421 F55
Freight, Fungi, Insects, Sanitation control (insects).

7953-69
DETERMINATION OF DDT IN BIOLOGICAL MATERIAL.
G Janicek J Davider
J Sci Food Agr 16(7):II-42-1
Jul 1965 382 SO12
Biological assay, DDT.

ARTHROPODS

7954-69
CONTAMINATION OF BAGGED WHOLE GINGER AFTER SURFACE TREATMENT WITH TWO SYNTHETIC CONTACT INSECTICIDES.
J A McFarlane L Donegan
J Sci Food Agr 13(12):634-638
Dec 1962 382 SO12
Ginger, Insecticides.

7955-69
UTILIZATION OF AN ARTIFICIAL FOOD FOR THE TESTING OF FOOD INSECTI CIDES. (GE)
L Weismann D Podmanicka
Biologia (bratislava) 22(8):561-565
1967 442.8 B5265
Chemical control (insects), Insect nutrition, Insecticides, Mamestra brassicae, Stored product insects.

ENVIRONMENTAL CONTAMINATION

7956-69
DDT YES OR NO .
Anonymous
Aerial Appl 7(6):4,10
Jul 1969 333.8 AE8
Animals, Aquatic animals, DDT, Environment, Humans, Pesticide residues, Regulations.

7957-69
COLLECTION AND ANALYSIS OF SYNTHETIC ORGANIC PESTICIDES FROM SURFACE AND GROUND WATER.
E Hindin D S May G H Dunstan
Residue Rev 7:130-156, 25 REFS., 8 TABS., 5 FIGS.
1964 389.9 R314
Acetylcholinesterase, Aldrin, Chlordane, Chromatography, Diazinon, Dieldrin, DDT, Endosulfan, Endrin, Heptachlor, Lindane, Malathion, Methoxychlor, Parathion, Ronnel, Water analysis.

RESIDUES

7958-69
DIELDRIN TRANSLOCATION AND ACCUMULATION IN CORN.
G B Beestman D R Keency G Chesters
Agron J 61(3,MAY-JUN):390-392 REF
Jun 1969 4 AM34P
Corn, Dieldrin, Plant physiology, Plant translocation, Radioactive tracers.

The stalks below the fifth node were the primary site of dieldrin localization, and contained 70 to 90 per cent of the total amount in the plant. Dieldrin accumulated in corn in decreasing concentrations in the following order; flower stalks, lower leaves, upper stalks, upper leaves, ears.

7959-69
INSECTICIDES IN HUMAN FAT IN NEW ZEALAND.
H V Brewerton H J W McGrath
New Zealand J Sci 10(2):486-492 REF
Jun 1967 514 N482

Adipose tissue (animals), Analogs, Chemical analysis, Chlorinated hydrocarbons, DDT, Insecticide residues, Statistical analysis.

Initial results in a programme of analyses of human fats for persistent organo-chlorine insecticides are reported. After fifty-two analyses, mean levels of DDT and DDE were 1.6 and 3.8 p.p.m. respectively.

7960-69

DICLORAN ANALYSIS BY GAS CHROMATOGRAPHY.

H V Brewerton P J Clark H J W McGrath

New Zealand J Sci 10(1):124-127

Mar 1967 514 N482

Chemical analysis, Chromatography, Dichloro-4-nitroaniline, 2,6-, Fungicide residues, Strawberries, Sweetpotatoes.

Dichloran (2,6-dichloro-4-nitroaniline), a fungicide used in control of post harvest rots, is readily analyzed down to o.i p.p.m. by gas chromatography with electron capture detection. Dichloran treatment trials on kumaras (sweet potatoes) and strawberries resulted in residues not greater than 5.9 and 4.8 p.p.m. respectively.

7961-69

PESTICIDE RESIDUES IN TOTAL DIET SAMPLES.

R E Duggan H C Barry L Y Johnson

Weed Abs 15(2):115

Mar 1966 241 G797

Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dieldrin, Diet, DDT, Food, TDE.

7962-69

INSECTICIDE EXPOSURE: A SENSITIVE PROCEDURE FOR URINARY P-NITROPHENOL DETERMINATION AS A MEASURE OF EXPOSURE TO PARATHION.

J W Elliott K C Walker A E Penick W F Durham

J Agr Food Chem 8(2):111-113

Mar 1960 381 J8223

Acetonitrile, Chlordane, Coumaphos, Dimethoate, DDT, Humans, Insecticide residues, Paranitrophenol, Parathion, Pesticide analysis, Urine.

7963-69

SPECIFIC DETECTION OF UREA HERBICIDE RESIDUES BY SEPARATION OF THEIR AMINES ON CELLULOSE THIN-LAYER PLATES.

H Geissbuhler D Gross

J Chromatography 27(1):296-299

Mar 1967 475 J824

Amines, Analogs, Chemical analysis, Chromatography, Herbicide residues, Phenylurea compounds, Urea herbicides.

7964-69

INSECTICIDE RESIDUES IN MILK AND DAIRY PRODUCTS.

J L Henderson

Residue Rev 8:74-115, 44 REFS., 10 TABS.

1965 389.9 R314

Aldrin, Chlordane, Chromatography, Dieldrin, DDT, Endrin, Food contamination, Heptachlor, Lindane, Methoxychlor, Pesticide residues, Toxaphene.

7965-69

EFFECT OF PESTICIDES ON CHEMICAL COMPOSITION OF SOYBEAN SEED (GLYCINE MAX (L.) MERRILL).

B J Johnson M D Jellum

Agron J 61(3,MAY-JUN):379-380

Jun 1969 4 AM34P

Chemical analysis, Chromatography, Fatty acids, Fungicides, Herbicides, Insecticides, Oils, Pesticides, Proteins, Seeds, Soybeans.

Fatty acids, oil content and protein content of seeds were not affected by any of the herbicides, systematic insecticides, or fungicides which were applied to soybeans in this experiment. Seed yields also were not affected.

7966-69

CUTICULA OF LEAVES AND THE RESIDUE PROBLEM.

H F Linskens W Heinen A L Stoffers

Residue Rev 8:136-178, 222 REFS., 12 TABS., 21 FIGS.

1965 389.9 R314

Dalapon, Demeton, DDT, Dusting, Parathion, Pesticide residues, Spraying.

7967-69

COLLABORATIVE STUDIES ON THE ANALYSIS OF PESTICIDE RESIDUES.

E J Miller I Granhall J W Cook

Residue Rev 7:114-129, 5 REFS., 7 TABS., 1 FIG.

1964 389.9 R314

Benzene hexachloride, Demeton-methyl, DDT, Malathion, Mercury, Methyl demeton, Pesticide residues.

7968-69

ONE-STEP CLEANUP OF CHLORINATED INSECTICIDE RESIDUES BY CHROMATOGRAPHY ON CARBON-CELITE MIXTURES.

W A Moats

Ass Offic Anal Chem J 47(3):587-591, 11 REFS., 2 TABS.

Jun 1964 381 AS7

Chromatography, DDT, Pesticide residues.

7969-69

AN IMPROVED METHOD FOR THE SEPARATION AND REMOVAL OF ORGANOCHLORINE INSECTICIDES FROM THIN-LAYER PLATES.

B M Mulhern

J Chromatography 34(4):556-558

07 May 1968 475 J824

Chlorinated hydrocarbons, Chromatography, Insecticide residues, Methodology.

7970-69

THE GAS-CHROMATOGRAPHIC DETERMINATION OF ORGANOPHOSPHORUS PESTICIDES. PART V. STUDIES UNDER FIELD CONDITIONS.

J H Ruzicka J Thomson B B Wheals

J Chromatography 33(3-4):430-434

19 Mar 1968 475 J824

Chromatography, Crops, Decomposition, Hydrolysis, Irradiation, Organophosphorus compounds, Pesticides.

7971-69

STUDIES ON THE ACTION OF RESIDUES OF VAPOROUS DDVP (DICHLORVOS) ON SOLID SURFACES. (IT)

G Sacca E Stella D Gandolfo

Parassitologia 10(2-3,OCT-DEC):203-209 REF

Dec 1968 436.8 P212

Biological assay, Dichlorvos, Insecticide residues, Musca domestica. English abstract.

7972-69

A RAPID AND SENSITIVE PROCEDURE FOR THE ROUTINE DETERMINATION OF ORGANO-CHLORINE PESTICIDE RESIDUES IN VEGETABLES.

D J Sissons G M Telling C D Usher

J Chromatography 33(3-4):435-449 REF

19 Mar 1968 475 J824

Chlorinated hydrocarbons, Electron capture, Methodology, Pesticide residues, Quantitative analysis, Vegetables.

7973-69

PESTICIDE RESIDUES.

S Williams

Anal Chem 37(5):130R-142R, 201 REFS.

Apr 1965 381 J825A

Chlorine, Dieldrin, DDT, Heptachlor, Heptachlor epoxide, Insecticide residues, Lindane, Perthane.

TOXICOLOGY

7974-69

FISH BRAIN CHOLINESTERASE: ITS INHIBITION BY CARBAMATES AND AUTOMATIC ASSAY.

M B Abou-Donia D B Menzel

Compar Biochem Physiol 21(1):99-108 REF

Apr 1967 444.8 C73

Biochemistry, Brain, Carbamates, Cholinesterases, Fish, Insecticides, Toxicology.

7975-69

SUSCEPTIBILITY AND RESISTANCE OF MOSQUITO FISH TO SEVERAL INSECTICIDES.

C E Boyd D E Ferguson

J Sci Food Agr 15(12)'II-294-4

Dec 1964 382 SO12

Dieldrin, DDT, Gambusia, Heptachlor, Mortality.

7976-69

EFFECTS OF INSECTICIDES ON ALGAE.

A E Christie

Water Sewage Works 116(5):172-176 REF

May 1969 290.8 M92

Algae, Carbaryl, DDT, Malathion, Metabolism, Radioisotopes, Toxicology.

7977-69

RESPONSES OF CELL CULTURES TO INSECTICIDES. IV. RELATIVE TOXICITY OF SEVERAL ORGANOPHOSPHATES IN MOUSE CELL CULTURES.

J Gabliks M Bantung-Jurilla L Friedman

Soc Exp Biol Med Proc 125(3):1002-1005 REF

Jul 1967 442.9 SO1

Dimethoate, Disulfoton, Liver, Malathion, Mice, Organophosphorus compounds, Skin, Tissue culture, Trichlorfon.

7978-69

THE METHOD OF CONDITIONED REFLEXES IN TOXICOLOGY AND ITS APPLICATION FOR DETERMINING THE TOXICITY OF SMALL QUANTITIES OF PESTICIDES.

L I Medved' E I Spynu Iv. S Kagan

Residue Rev 6:42-74, 65 REFS., 5 FIGS.

1964 389.9 R314

Aldrin, Arsenic, Chlordane, Cholinergic system, Demeton, DDT, Heptachlor, Malathion, Manganese, Mercury, Nervous system, Parathion, Sodium cyanide.

7979-69

EFFECTS OF VARIOUS WATER VOLUMES ON THE EFFECTIVENESS OF METHYL PARATHION-DDT IN CONTROLLING THE COTTON BOLL WEEVIL, ANTHONOMUS GRANDIS.

A D Oliver L W Sloane

J Econ Entomol 57(2):292

Apr 1964 421 J822

Anthonomus grandis, Cotton, DDT, Insect control, Insecticide application, Methyl parathion, Water.

7980-69

PYRETHRUM EFFECTS ON DOMESTIC CATS. (GE)

H Petzsch

Angew Parasitol 10(1):61

Feb 1969 436.8 AN4

Cats, Insecticides, Pyrethrum, Toxicology.

PLANT PHYSIOLOGY & BIOCHEMISTRY

7981-69

THE OCCURRENCE OF GIBBERELLIN-LIKE SUBSTANCES IN TUL IP BULBS. (TULIPA SP.).

L H Aung A De Hertogh

Plant Cell Physiol 8(1):201-205

Mar 1967 450 P699

Biological assay, Gibberellins, Plant biochemistry, Plant enzymes, Plant extracts, Plant growth regulator, Tulipa.

7982-69
GIBBERELLIN-LIKE SUBSTANCES IN THE FRUITS OF GINKGO BILOBA L..
S N Banerjee N W Radforth
Plant Cell Physiol 8(1):207-209 REF
Mar 1967 450 P699
Biological assay, Chromatography, Corn, Gibberellins, Ginkgo biloba, Plant extracts, Plant growth regulator.

7983-69
EFFECTS OF PICLORAM AND ETHYLENE ON LEAF MOVEMENT IN HUISACHE AND MESQUITE SEEDLINGS.
J R Baur P W Morgan
Plant Physiol 44(6):831-838 REF
Jun 1969 450 P692
Acacia farnesiana, Ethylene, Herbicides, Leaves, Picloram, Plant physiology, Prosopis juliflora.

Application of picloram to roots stimulated the production of ethylene in both mesquite and huishche seedlings. Herbicide levels rose in tissues before the detection of increased ethylene production. Rates of ethylene production by various parts of the plant paralleled herbicide concentrations. In both species, picloram caused loss of leaf movement and epinastic curvature of leaves and stems. Only huisache was defoliated by picloram. Rates of ethylene production increased before any leaf movement or defoliation responses were detected. Fumigation of plants with ethylene caused the same symptoms as picloram treatment.

7984-69
GROWTH AND FRUIT DROP OF YOUNG FRUIT TREES SPRAYED WITH THE ACARICIDES DEMETON-METHYL OR TETRADIFON.
J B Briggs D J Avery
East Malling Res Sta Annu Rep (A51):173-175
1968 103 EA7
Acaricides, Apples, Chemical control (insects), Methyl demeton, Plant injuries, Plant physiology, Pre-harvest drop, Tetradifon.

7985-69
INHIBITION OF STRAWBERRY RUNNER PRODUCTION WITH ALAR, CYCOCEL, MALEIC HYDRAZIDE, AND TIBA.
W H Childs O E Schubert S S Miller
W Va Acad Sci Proc 39:194-200
1967 500 W52
Chloroethyl)trimethylammonium chloride, (2-, Maleic hydrazide, Plant physiology, Plant regulators, Strawberries, Succinic acid, 2,2-dimethylhydrazide, Triiodobenzoic acid, 2,3,5-.

7986-69
RADIATION GLYCEMIA IN TUBER TISSUE IN SOLANUM TUBEROSUM. (POL)
J Fink
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(1):75-90
1967 64.8 H66
Glycemia, Plant biochemistry, Plant extracts, Plant tissues, Potatoes, Radiation. English and Russian summaries.

7987-69
RESPONSE OF TWO SPECIES OF IPOMOEA TO GIBBERELLIC ACID TREATMENT.
K Genest
Lloydia 30(2):164-176 REF
Jun 1967 442.8 L77
Flowering, Gibberellic acid, Greenhouses, Ipomoea, Plant morphology, Plant physiology, Plant reproduction.

7988-69
A RAPID METHOD FOR THE DETERMINATION OF MANGANESE IN MANEB AND ITS FORMULATIONS.
A S Hyman
Analyst 94(1115):152-153
Feb 1969 382 AN1
Copper, Fungicides, Maneb, Manganese.

7989-69
ION UPTAKE OF SWEET POTATO ROOTS INFECTED BY THE BLACK ROT FUNGUS.
H Imaseki K Akutsu I Uritani
Plant Cell Physiol 8(4):753-758 REF
Dec 1967 450 P699
Ceratocystis fimbriata, Fungus diseases (plants), Plant metabolism, Plant translocation, Sweet potatoes.

7990-69
GROWTH-REGULATING SUBSTANCES FROM PINUS SILVESTRIS SEPARATED ON SEPHADEX LH-20.
A Klingstrom
J Chromatography 30(2):605-606
Oct 1967 475 J824
Biological assay, Chromatography, Melampsora pinitorqua, Pinus sylvestris, Plant biochemistry.

7991-69
PHYSIOLOGICAL CLASSIFICATION OF PLANT GROWTH INHIBITORS. (POL)
J S Knypl
Kosmos Ser A Biol 16(4):413-423 REF
1967 442.8 K84
Classification, Plant biochemistry, Plant growth inhibitors, Plant physiology.

7992-69
PYRIMIDINE DIMER FORMATION IN ULTRAVIOLET IRRADIATED TMV-RNA.
V Merriam M P Gordon
Photochem Photobiol 6(5):309-319 REF
May 1967 382 P56
Plant biochemistry, Pyrimidines, Ribonucleic acid, Tobacco mosaic virus, Ultraviolet rays.

7993-69
EXPERIMENTS WITH BLACK MUSTARD (BRASSICA NIGRA) AND DISTRIBUTION OF VARYING QUANTITIES OF CALCIUM NITRATE FERTILIZER 1963 TO 1966. (DA)
A Nordestgaard
Tidsskr Plant 72(3):322-326
1968 11 T439
Brassica, Calcium nitrate, Dosage, Fertilizers, Seeds. English summary.

7994-69
APPLICATION OF THE GAMETOCIDE FW-450 FOR PRODUCING MALE STERILITY IN RADISH (RAPHANUS SATIVUS V. RADICOLA D. C.). (POL)
T Ruebenbauer A Binek
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(1):91-100 REF
1967 64.8 H66
Gametocides, Plant morphology, Radishes, Sterility. English and Russian summaries.

7995-69
ROLE OF GROWTH REGULATORS IN DIFFERENTIATION PROCESSES OF MAIZE (ZEA MAYS L.) ORGANS.
Z Sladky
Biol Plant 11(3):208-215 REF
1969 450 B52
Biological assay, Chromatography, Corn, Plant hormones, Plant physiology.

7996-69
PREVENTION OF PHOTOREACTIVATION OF TOBACCO MOSAIC VIRUS--RIBONUCLEIC ACID BY RECONSTITUTION.
G D Small M P Gordon
Photochem Photobiol 6(5):303-308 REF
May 1967 382 P56
Photochemistry, Plant biochemistry, Ribonucleic acid, Tobacco mosaic virus, Ultraviolet rays.

7997-69
PHENOL METABOLISM IN RELATION TO DISEASE RESISTANCE OF POTATO TUBER. II. EXPONENTIAL EQUATION RELATING LEVELS OF PHENOLS OR PHENOLIC ENZYMES TO DISTANCE FROM LOCUS OF INJURY OF PLANT TISSUE.
K Tomiyama N Ishizaka
Plant Cell Physiol 8(1):217-220
Mar 1967 450 P699
Phenols, Phytophthora infestans, Plant disease resistance, Plant enzymes, Plant injuries, Plant metabolism, Potatoes, Statistical analysis.

7998-69
PHENOL METABOLISM IN RELATION TO DISEASE RESISTANCE OF POTATO TUBER. I. ACTIVITIES OF PHENOL OXIDASE AND SOME ENZYMES RELATED TO GLYCOLYSIS AS AFFECTED BY CHLOROGENIC ACID TREATMENT.
K Tomiyama R Sakai Y Otani T Takemori
Plant Cell Physiol 8(1):1-13 REF
Mar 1967 450 P699
Chlorogenic acid, Glycolysis, Phenolases, Plant disease resistance, Plant enzymes, Plant metabolism, Potatoes, Radioactive tracers.

CHEMISTRY

7999-69
GAS CHROMATOGRAPHIC IDENTIFICATION OF CH LORINATED INSECTICIDES BASED ON THEIR U . V. DEGRADATION.
K A Banks D D Bills
J Chromatography 33(3-4):450-455 REF
19 Mar 1968 475 J824
Chemistry, Chlorinated hydrocarbons, Chromatography, Degradation, Electron capture, Insecticides, Ultraviolet rays.

8000-69
GAS CHROMATOGRAPHIC CHARACTERISTICS OF CHLORDANE. II. OBSERVED COMPOSITIONAL CHANGES OF THE PESTICIDE IN AQUEOUS AND NON-AQUEOUS ENVIRONMENTS.
A Bevenue C Y Yeo
J Chromatography 42(1):45-52 REF
03 Jun 1969 475 J824
Chlordane, Chromatography, Pesticide analysis, Water.

8001-69
QUANTITATIVE DETERMINATION OF PESTICIDE RESIDUES BY ELECTRON ABSORPTION CHROMATOGRAPHY: CHARACTERISTICS OF THE DETECTOR.
S J Clark
Residue Rev 5:32-44, 16 REFS., 2 TABS., 6 FIGS.
1964 389.9 R314
Aldrin, Anthracene, Chromatography, Dieldrin, DDT, Endrin, Heptachlor, Lindane, Methoxychlor, Pesticide residues.

8002-69
GAS CHROMATOGRAPHY FOR THE ANALYSIS OF PESTICIDES USING AEROGRAPH ELECTRON CAPTURE DETECTOR.
K P Dimick Hal Hartmann
Residue Rev 4:150-172, 7 REFS., 1 TAB., 14 FIGS.
1963 389.9 R314
Chromatography, DDT, Endosulfan, Pesticide residues.

8003-69
RECENT DEVELOPMENTS IN THE DETECTION AND DETERMINATION OF PESTICIDES AND THEIR RESIDUES BY OSCILLOGRAPHIC POLAROGRAPHY.
R J Gajan
Residue Rev 6:75-86, 42 REFS.
1964 389.9 R314
Azinphosmethyl, DDT, Ferbam, Methyl parathion, Parathion, Pesticide residues, Polarography, Zineb, Ziram.

8004-69
APPLICATIONS OF POLAROGRAPHY FOR THE DETECTION AND DETERMINATION OF PESTICIDES AND THEIR RESIDUES.
R J Gajan
Residue Rev 5:80-90, 28 REFS., 7 FIGS.

1964 389.9 R314
Apples, Azinphosmethyl, Cucumbers, DDT, Malathion, Methoxychlor, Parathion, Pears, Pesticide residues, Polarography, Tomatoes.

8005-69
GAS CHROMATOGRAPHY USING AN ELECTRON ABSORPTION DETECTOR.
L K Gaston
Residue Rev 5:21-31, 16 REFS. 2 TABS. 7 FIGS.
1964 389.9 R314
Aldrin, Carbophenothion, Chromatography, Dieldrin, DDT, Endrin, Lindane, Malathion, Pesticide residues.

8006-69
SELECTIVE DETECTION AND IDENTIFICATION OF PESTICIDE RESIDUES.
T Johns C H Braithwaite Jr
Residue Rev 5:45-56, 8 REFS., 2 TABS., 7 FIGS.
1964 389.9 R314
Aldrin, Chromatography, DDT, Heptachlor, Lindane, Parathion, Pesticide residues.

8007-69
THIN LAYER CHROMATOGRAPHY OF SUBSTITUTED NITROANILINES AND RELATED COMPOUNDS.
C L Keswani D J Weber
J Chromatography 30(1):130-135 REF
Sep 1967 475 J824
Chromatography, Nitroanilines.

8008-69
THE CHROMATOGRAPHIC DETERMINATION OF ORGANOPHOSPHORUS PESTICIDES. PART III. THE EFFECT OF IRRADIATION ON THE PARENT COMPOUNDS.
T H Mitchell J H Ruzicka J Thomson B B Wheals
J Chromatography 32(1):17-23 REF
09 Jan 1968 475 J824
Chromatography, Irradiation, Organophosphorus compounds, Pesticides.

8009-69
THE DETECTION OF THIRAM BY THIN LAYER CHROMATOGRAPHY.
N G Porter
J Chromatography 28(2):469-470
Jun 1967 475 J824
Chemical analysis, Chromatography, Fungicides, Thiram.

8010-69
THE GAS-CHROMATOGRAPHIC EXAMINATION OF ORGANOPHOSPHORUS PESTICIDES AND THEIR OXIDATION PRODUCTS.
J Ruzicka J Thomson B B Wheals
J Chromatography 30(1):92-99 REF
Sep 1967 475 J824
Chromatography, Organophosphorus compounds, Pesticide residues, Pesticides.

8011-69
THE APPLICATION OF GEL CHROMATOGRAPHY TO THE SEPARATION OF PESTICIDES. PART I. ORGANOPHOSPHORUS PESTICIDES.
J H Ruzicka B B Wheals N F Wood J Thomson
J Chromatography 34(1):14-20
26 Mar 1968 475 J824
Acetone, Chromatography, Ethyl alcohol, Organophosphorus compounds, Pesticides.

8012-69
SCREENING METHODS FOR ORGANOCHLORINE AND ORGANOPHOSPHATE INSECTICIDES IN FOODS AND FEEDS.
B L Samuel H K Hodges
Residue Rev 17:35-72, 122 REFS., 4 TABS.
1967 389.9 R314
Aldrin, Chromatography, Dieldrin, DDT, Endosulfan, Fluorescence, Heptachlor, Lindane, Malathion, Parathion, Pesticide residues, Polarography, Spectrophotometry, Vaporization.

8013-69
A SIMPLE AND RAPID SEPARATION OF PESTICIDES BY POLYAMIDE CHROMATOGRAPHY.
R T Wang S S Chou
J Chromatography 42(3):416-418
01 Jul 1969 475 J824
Amides, Chemical analysis, Chromatography, Pesticides.

ENGINEERING

8014-69
BEEKEEPING: THE ECONOMICS OF MECHANIZATION.
F S Benecke
Agr Gaz New S Wales 80(2):98-101
Feb 1969 23 N472
Apiaries, Apiculture, Bees, Dairy equipment, Manufacturing costs, Mechanization, Production economics.

8015-69
WATER-BASE INSECTICIDES.
A S Glessner
J Sci Food Agr 16(7):12
Jul 1965 382 SO12
Allethrin, Containers, DDT, Methoxychlor, Piperonyl butoxide, Pyrethrum, Thanite.

8016-69
APPLICATION OF PESTICIDES TO TOBACCO SEED-BEDS.
W F T Hartill
Rhodesia J Agr Res 6(2):71-76
1968 24 R3472 (1)
Nozzles, Pesticide application, Pesticides, Seedbeds, Spray volume, Spraying equipment, Tobacco.

INDUSTRY

EDUCATION

8017-69
EFFECTS OF 'THE USE OF PESTICIDES' FROM AN INDUSTRIAL VIEWPOINT.
L R Gardner
Residue Rev 6:23-26, 1 REF.
1964 389.9 R314
DDT, Industry, Pesticides.

REGULATIONS

8018-69
FDA PUBLISHES PROPOSAL FOR RESIDUE TOLERANCE IN MILK,.
Agr Chem 20(12):72
Dec 1965 381 AG8
Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Milk, Pesticide residues, TDE.

8019-69
JAPANESE LAWS AND REGULATIONS CONCERNED WITH PESTICIDE AND FOOD ADDITIVE RESIDUES IN FOODSTUFFS.
I Suzuki
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